

STEREO CASSETTE DECK  
**KX-5030**  
 SERVICE MANUAL

**KENWOOD**

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 B51-4299-00(S)1795

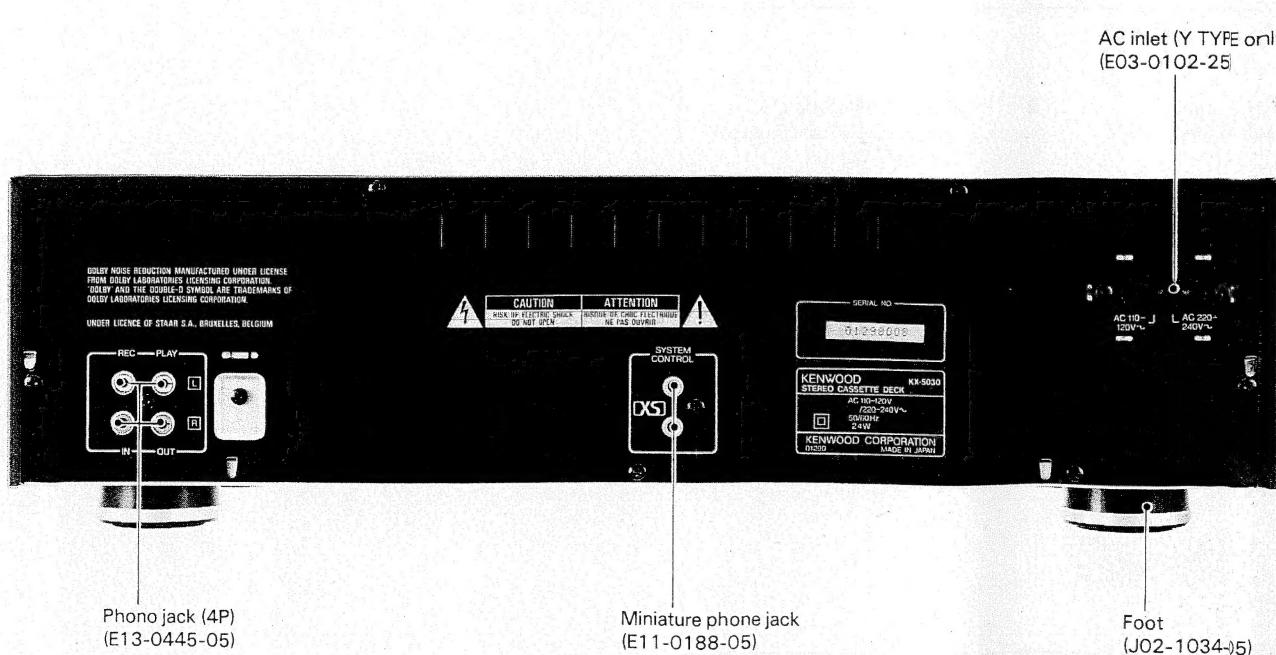
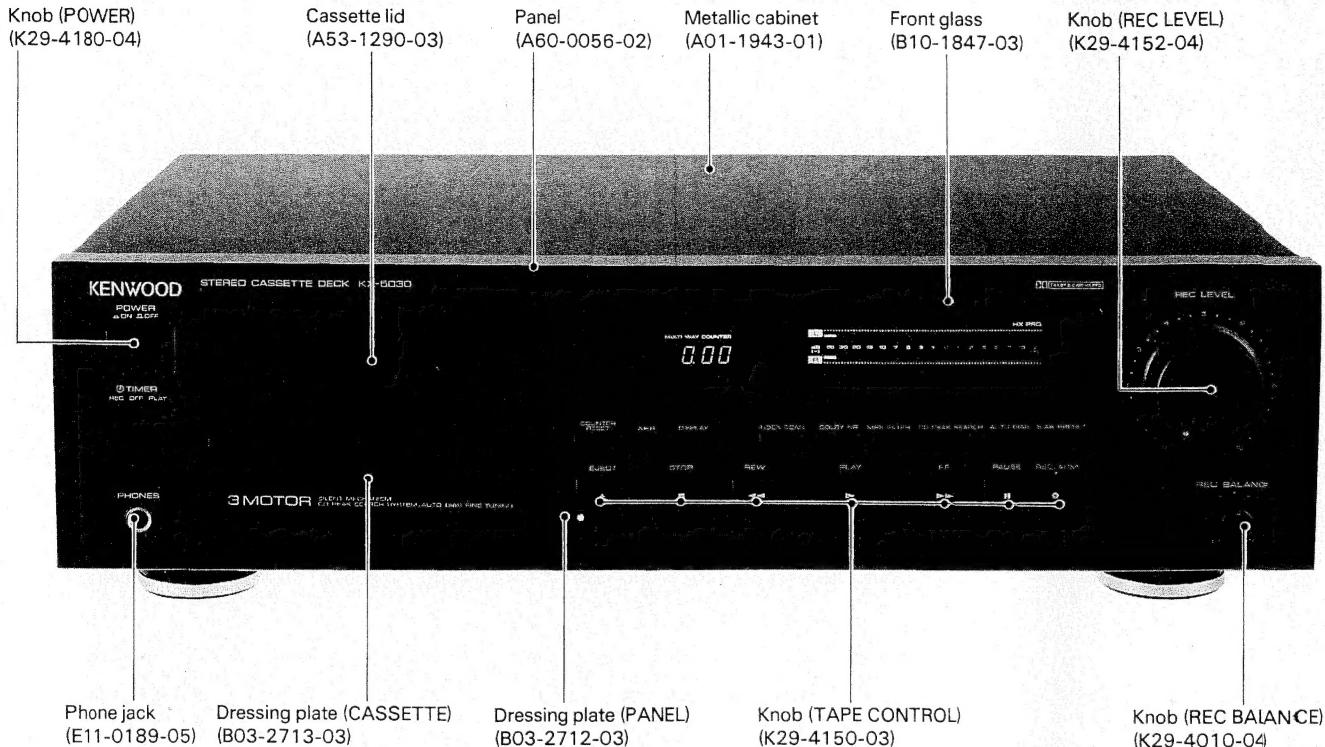


Photo is KX-5030Y TYPE.  
 Refer to parts list on page 39.

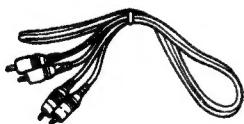
# KX-5030

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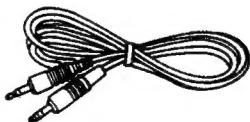
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### Accessories

Audio cord ..... 2  
(E30-0505-05)



System control cord..... 1  
(Except for U.K. and Europe)  
(E30-0977-05)



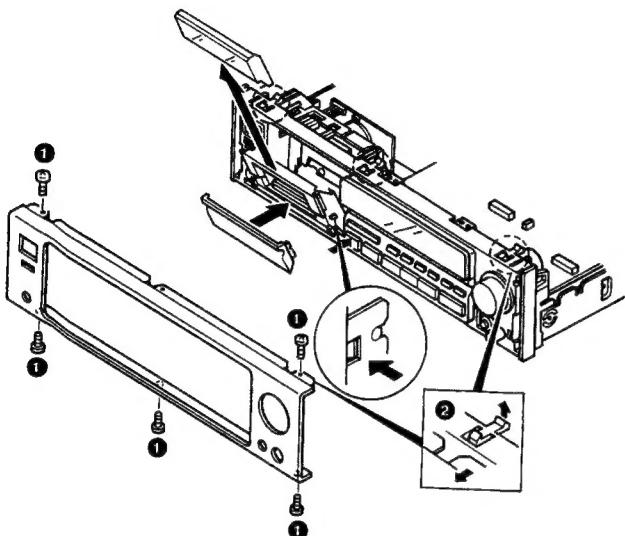
AC cord..... 1  
(Except for some areas.)  
(The shape may vary de-  
pending on the destination  
area.)



# DISASSEMBLY FOR REPAIR

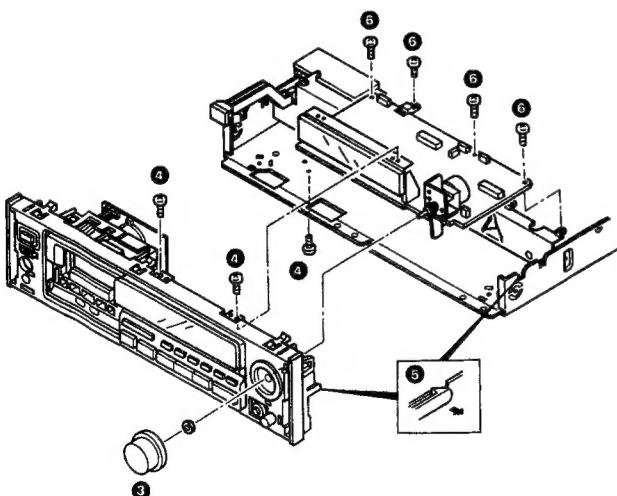
## Remove the front panel.

1. Remove the five screws ①.
2. Remove the two claws ②, then remove the front panel.
3. Press the EJECT button, then detach the cassette lid from the cassette holder.



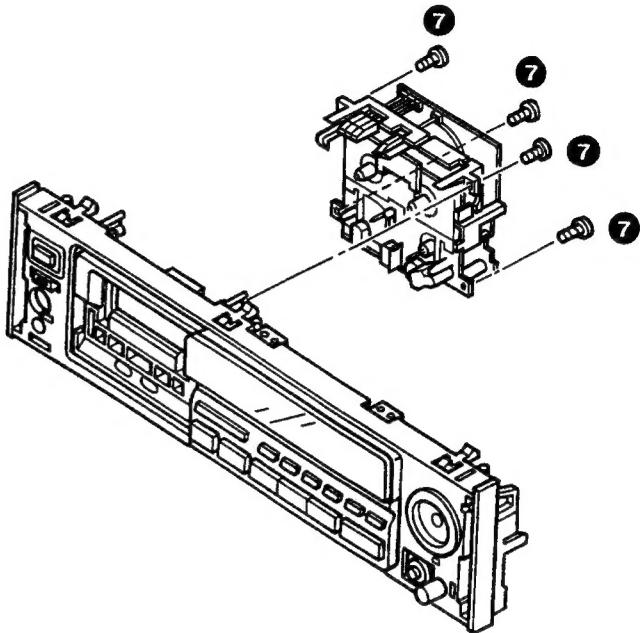
## Remove the display unit.

4. Remove the knob ③ and nut.
5. Remove the three screws ④ and two claws ⑤, then remove the sub panel.
6. Remove the four screws ⑥, then remove the display unit.



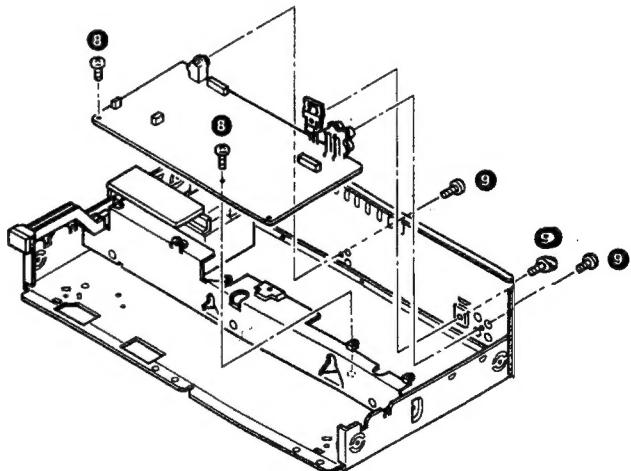
## Remove the mechanism

7. Remove the four screws, then remove the mechanism.

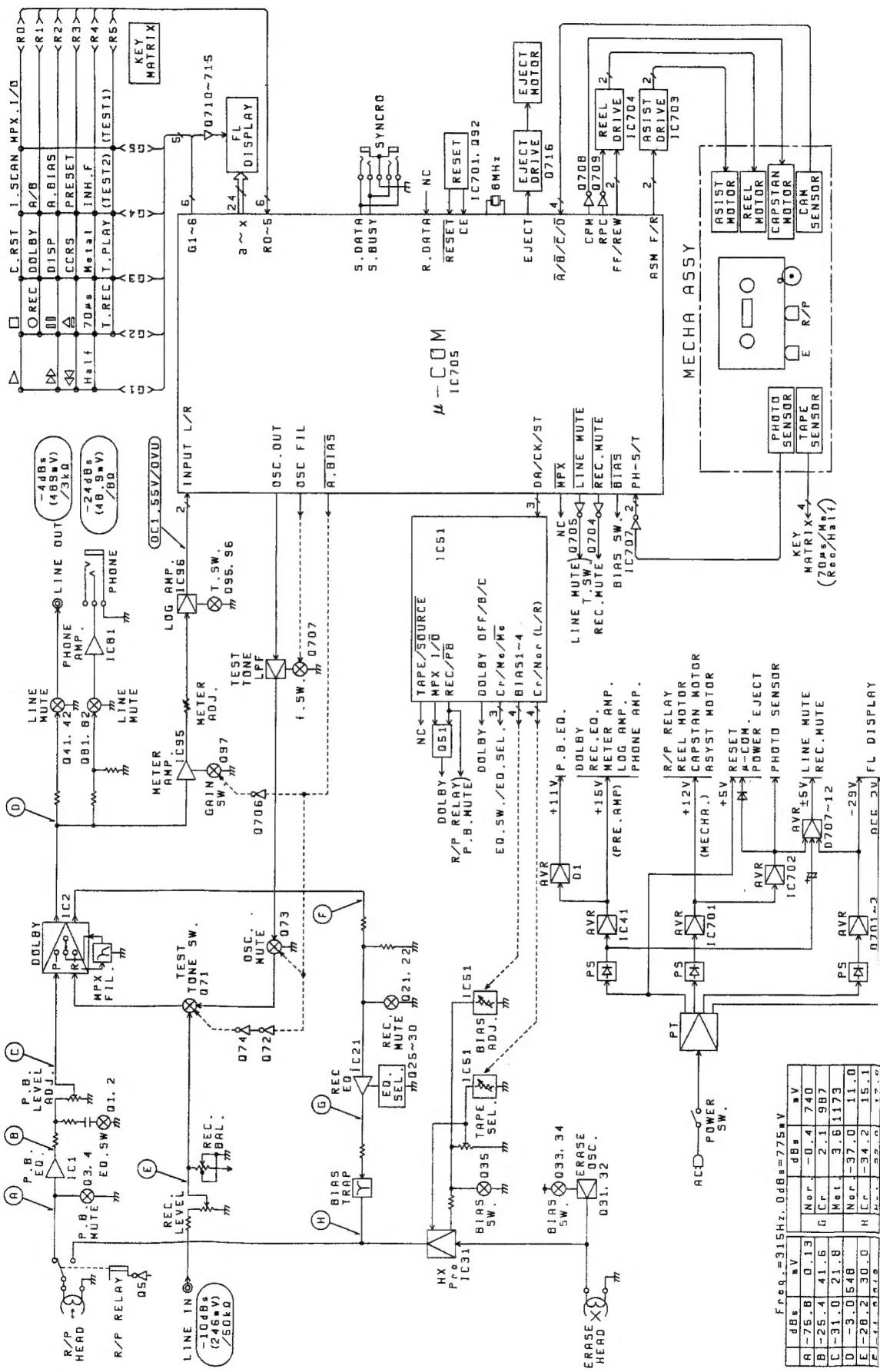


## Remove the PC board.

8. Remove the two screws ⑧.
9. Remove the three screws ⑨, then remove the PC board.



## BLOCK DIAGRAM



Freq.	= 315Hz.	0dBs = 775mV
A	-76.8	0.13
B	-25.4	41.6
C	-31.0	21.8
D	-3.0	54.8
E	-28.2	30.0
F	-	-
G	-	-
H	-	-
I	-	-
J	-	-
K	-	-
L	-	-
M	-	-
N	-	-
O	-	-
P	-	-
Q	-	-
R	-	-
S	-	-
T	-	-
U	-	-
V	-	-
W	-	-
X	-	-
Y	-	-
Z	-	-

# CIRCUIT DESCRIPTION

## Functions of Components Cassette unit (X26-125X-XX)

Parts No.	Parts Name	Use/Function	Operation
Q1,2	2SC1740S or 2SC3311A	Playback equalization time constant switching	Playback equalization high-range time constant switching between 120 µs and 70 µs ON: 70 µs.
Q21,22	2SD 1302	REC MUTE	Pin 13 (RM) of microprocessor IC705 goes high during recording, Q704 turns off, and Q21 and Q22 turn off.
Q23,24	2SC1740S	Playback equalization select (CYO2)	IC51 pin 8 (CrO2) goes high for CrO2 tape, and Q23 and Q24 turn off.
Q25,26	2SC1740S	Playback equalization (METAL)	IC51 pin 10 (MET) goes high for metal tape, and Q25 and Q26 turn off.
Q27,28	2SC1740S	Playback equalization peaking	IC51 pin 11 goes high for normal and CrO2 tape, and Q27 and Q28 turn off.
Q31,32	2SD863	BIAS OSC	105 kHz is produced during recording.
Q33	2SC3246	Bias power supply	Microprocessor IC705 pin 11 (BIAS) goes low during recording, Q34 turns off, Q33 turns on, and +B is applied to OSC for E. HX.
Q34	DTC124ES	BIAS ON/OFF SW	
Q35	DTC124ES	HX slow start switch	Switch that starts HX OSC slowly during recording.
Q41,42	2SD1302	L MUTE SW	Pin 12 (LM) of microprocessor IC705 goes high during recording or playing. Q705 turns off, and Q41 and Q42 turn off.
Q51	DTC124ES	MPX SW	Q51 is turned on and off by IC51 pin 22. Q51 OFF → MPX FIL ON
Q71	2SC1740S	TEST TONE SW	Controlled by IC705 pin 21 (A. BIAS).
Q72	2SC1740S		Low during A. BIAS → Q72: off, Q74: on, Q71: off
Q73	2SC1740S		Q73 turns off, and the line input turns off.
Q74	2SA1309A		The output from OSC OUT goes to Rch of IC11.
Q704	2SA1309A	R <sup>M</sup> drive	Q704 is turned on and off by IC705 pin 13 (RM), and Q21 and Q22 are turned on and off.
Q705	2SA1309A	L <sup>M</sup> drive	Q705 is turned on and off by IC705 pin 12 (LM). Q95, Q96, Q81, Q82, Q41, and Q42 are turned on and off.
Q706	2SA1309A	LEVEL AMP SW	Q706 is turned on by A. BIAS, Q707 is turned on, and the gain of the IC95 level amplifier is changed.
Q707	2SC3311A		
Q708	2SC3246	CM DRIVE	Q708 is turned on and off by IC705 pin 25 (CPM). The capstan motor is also turned on and off.
Q709	2SC3311A	RM SP SW	Q709 is turned on and off by IC705 pin 38 (RPC), and the reel motor speed is controlled.
Q710 715	DTC113ZS	FL DRIVE	Fluorescent display (grid) drive
Q716	2SC3246	EJECT MOTOR DRIVE	Q716 is turned on and off by IC705 pin 76 (EJECT), and the eject motor is controlled. ON: EJECT MOTOR ON.
Q718	DTA113ZS	POWER ON MUTE	When the power is switched on, Q718 is turned on to turn recording mute on.
IC1	TA8125S	PB EQ AMP.	
IC11	HA1217ONT	DOLBY	Changed between OFF, B, and C by the input to pin 5. The multiplex filter is turned on and off by the input to pin 26.
IC21	NJM4565DD	REC EQ AMP	
IC31	μPC1297CA	HX-PRO	
IC41	μPC7815HF	+15V AVR	Power supply for the playback/record circuit.

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## CIRCUIT DESCRIPTION

Parts No.	Parts Name	Use/Function	Operation
IC51	TC9164N	FUNCTION switch	See attached sheet.
IC81	M5218AL	H.PHONE AMP.	
IC95	NJM4565DD	METER AMP.	
IC96	BA6138	LOG AMP.	
IC701	$\mu$ PC7812HF	+12V AVR	Power supply for the mechanism
IC702	$\mu$ PC7805HF	+5V AVR	Power supply for microprocessor, remote controller, and resetting
IC703	BA6209	AM DRIVE	Normal and reverse rotation is controlled by pins 2 and 10.
IC704	BA6229	RM DRIVE	Pins 2 and 10 control the direction of rotation, and the voltage at pin 4 controls the speed.
IC705	CXP82124-1036	$\mu$ -com	See attached paper.
IC707	BA10393N	Reel pulse amplifier	
			When the power is switched on, Q92 is turned on for resetting.

# CIRCUIT DESCRIPTION

## Description of Operation

Key name	Function	Display
FWD PLAY ▶	If there is a cassette in the drive, it is played back in the forward direction.	Linear counter
FF ▶▶	The tape is wound onto the right-hand reel at high speed.	Linear counter
REW ◀◀	The tape is wound onto the left-hand reel at high speed.	Linear counter
STOP ■	All operations are stopped.	Linear counter
REC/ARM ●/◆	Starts recording. If recording is in progress, ARM starts.	The REC indicator (●) lights. The indicator flashes during ARM and lights when ARM ends (■●).
PAUSE ■■	Recording pauses (REC PAUSE) or playing pauses (PLAY PAUSE).	The PAUSE indicator (■■) lights.
COUNTER RESET	<ul style="list-style-type: none"> <li>Resets the linear counter to 0.00.</li> <li>Maintains 0.00 while the key is held down.</li> <li>Stops when this key is pressed during zero stop.</li> <li>Invalid during DPSS track selection.</li> </ul>	Linear counter
DOLBY NR.	Switches the Dolby noise reduction.  OFF → B → C ↑	OFF B DOLBY NR [B] C DOLBY NR [C]
DISPLAY	Switches display.	All display → Counter only  (The operation from the counter is automatically performed if another key is pressed.)
CD peak search	<ul style="list-style-type: none"> <li>CD peak search start</li> <li>CD high-speed sampling</li> </ul>	REC PAUSE indicator
MPX FILTER	MPX FILTER ON/OFF	The MPX indicator lights or goes off.
A/B REPEAT	<p>Playback the part between A and B. (Effective only during playback)</p> <p>When the key is first pressed, point A is memorized; when the key is pressed again, point B is memorized. When REWIND is pressed, playback starts from point A, and is repeated 16 times.</p> <ul style="list-style-type: none"> <li>If another key is pressed, the A-B repeat is cancelled. After the specified part has been played back 16 times, normal playback returns.</li> </ul> <p>It must take at least 10 seconds from point A to point B.</p>	Repeat A ▶ B  Counter indicator  0.0 / Number of playbacks
AUTO BIAS	Auto bias on/off key	AUTO BIAS flashes. → Lights.
BIAS PRESET	1. AUTO BIAS on: The current optimum bias value is stored in memory. 2. AUTO BIAS off: The optimum bias value is recalled from memory.	1. AUTO BIAS → BIAS PRESET Flash → Lig ht 2. BIAS PRESET Flash → Lig ht

## DPSS mode

Name	Key operation	Description
INDEX SCAN	INDEX SCAN key Counter indicator  0.0 / Number of playbacks	The beginning of each track is played for about 10 seconds.
Zero stop	FF + STOP REW + STOP	Stop when the counter reaches 0.00.

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## CIRCUIT DESCRIPTION

Name	Key operation	Description (The description in parentheses is for reverse playback.)
Fast forward search (skip track selection)	Press the FF key during forward playback. Counter indicator  Number of key presses      Number of tracks	<ul style="list-style-type: none"> <li>Skips forward (relative to the playback direction) the number of tracks (up to 16) equivalent to the number of times the FF key is pressed.</li> <li>If the FF is pressed during fast forward search, the number of times the key is pressed is added to the number of tracks to be skipped.</li> </ul>
Rewind search (skip track selection)	Press the REW key during forward playback.	<ul style="list-style-type: none"> <li>Skips backward (relative to the playback direction) the number of tracks (up to 16, including the current track) equivalent to the number of times the REW key is pressed.</li> <li>If the REW key is pressed during rewind search, the number of times the key is pressed is added to the number of tracks to be skipped.</li> </ul>
One-track repeat	Press the PLAY key again during playback, or press the PLAY key twice during an operation other than playback. Counter indicator  Number of playbacks	<ul style="list-style-type: none"> <li>The current track is played 16 times, the normal playback returns.</li> <li>If the PLAY key is pressed again while a track is being repeated, the track is repeated 16 times from that time.</li> </ul>
Rewind play	Press the REW and FWD PLAY keys together.	<ul style="list-style-type: none"> <li>When the REW and FWD PLAY keys are pressed together, the tape is rewound to its end (RWD), and then a fast forward search is done on the forward side. When the first track is detected, playback starts.</li> </ul>
Dash & Play	Press the FF and REW keys together. • One-side full repeat for undirectional models Counter indicator  Number of playbacks	<ul style="list-style-type: none"> <li>Plays back in the current tape direction.</li> <li>Cues and searches for the next track if a blank section continues for ten seconds during playback. If a track is found, it is played back.</li> </ul>
Rerec standby	Press the REW key during forward recording.	<ul style="list-style-type: none"> <li>If the end of a previous track is found by reviewing (RVW), the tape is stopped two seconds before the end.</li> </ul>
Auto rec mute	Press the REC key during normal recording.	Turn REC MUTE on for four seconds, record, and then record pause.

# CIRCUIT DESCRIPTION

## Auto-bias operation

- The deck must be stopped and contain a tape that can be recorded on.

### 1) Bias select

- Feed unrecorded tape for ten seconds to skip the leader tape.

Changing the bias values in order, starting with the largest, record 400-Hz and 10-kHz signals alternately, and monitor them at the same time. The point where 10 kHz (level)  $\geq$  400 Hz (level) is the optimum value, and is stored in memory and output.

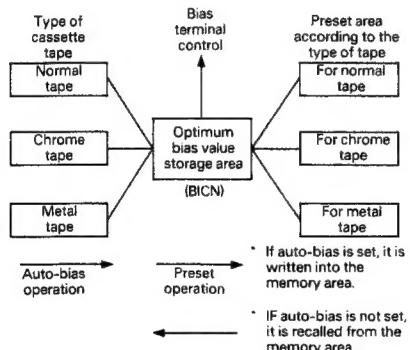
## 2 HEAD

Feed	REC	RWD	PLAY	RWD
10 sec	16 sec	2 sec	16 sec	2 sec

### 2) Bias preset

When the auto-bias operation is performed, the optimum bias value is stored in the current memory area (BICN).

- Since there is only one area regardless of the type of tape, if the auto-bias is set and the type of tape is changed, the optimum bias value will be wrong. So the auto-bias needs to be set again or a preset value needs to be recalled.



- A preset value is recalled to solve the problem described in (a).

The preset condition is backed up and is not erased by switching the power on or off. If presetting is turned on, the optimum bias value for the type of tape is always recalled from the preset area. So recording can be always done with the optimum bias value when the tape is changed or timer recording takes place.

## 4. Operation canceling

- If auto-bias is set and the AUTO BIAS key is pressed, the previous optimum bias value is cleared, and the initial setting (center value) is recalled.
- If bias preset is off, and the BIAS PRESET key is pressed, the initial setting is recalled.

## Test mode

### 1. Test mode setting

Short pin 3 to pin 4 with a diode, and switch the power on.

### 2. Test mode cancel

The test mode is exited when the PAUSE KEY is pressed.

### 3. Test mode

- All indicators on:** All indicators light 500 ms after the power is switched on, and stay on for about 1.5 seconds. When all the indicators go off, key inputs are accepted.

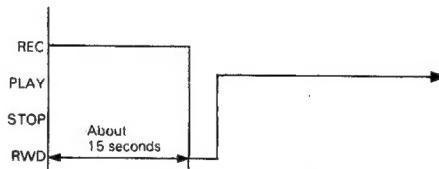
- Mechanical switch display:** The condition of each mechanical switch is displayed on the level meter section when LINE MUTE is on.

CrO <sub>2</sub>	MET	REINH
+3 dB	+7 dB	+12 dB

- Direct change:** Playback is changed directly to recording.

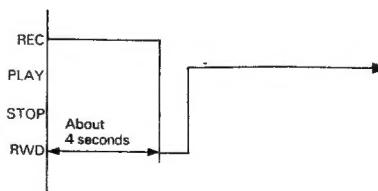
- Timer play:** When the timer switch is set to PLAY, playback starts in the shortest possible time (about two seconds).

- Timer recording:** When the timer switch is set to REC, recording and playback take place automatically as shown in the following timing chart.



- CCRS:** When the CCRS key is pressed, serial code "CCRS start" is output, then REC PAUSE is made effective.

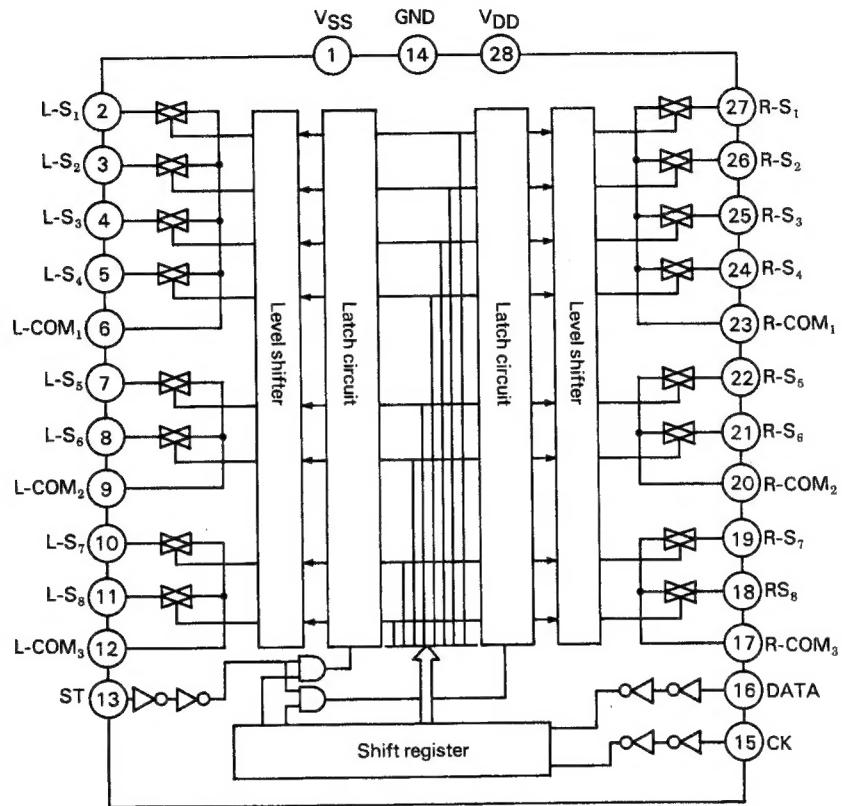
- Four-second recording:** When the REC key is pressed, recording is done for four seconds, then the recorded part is played back from the beginning.



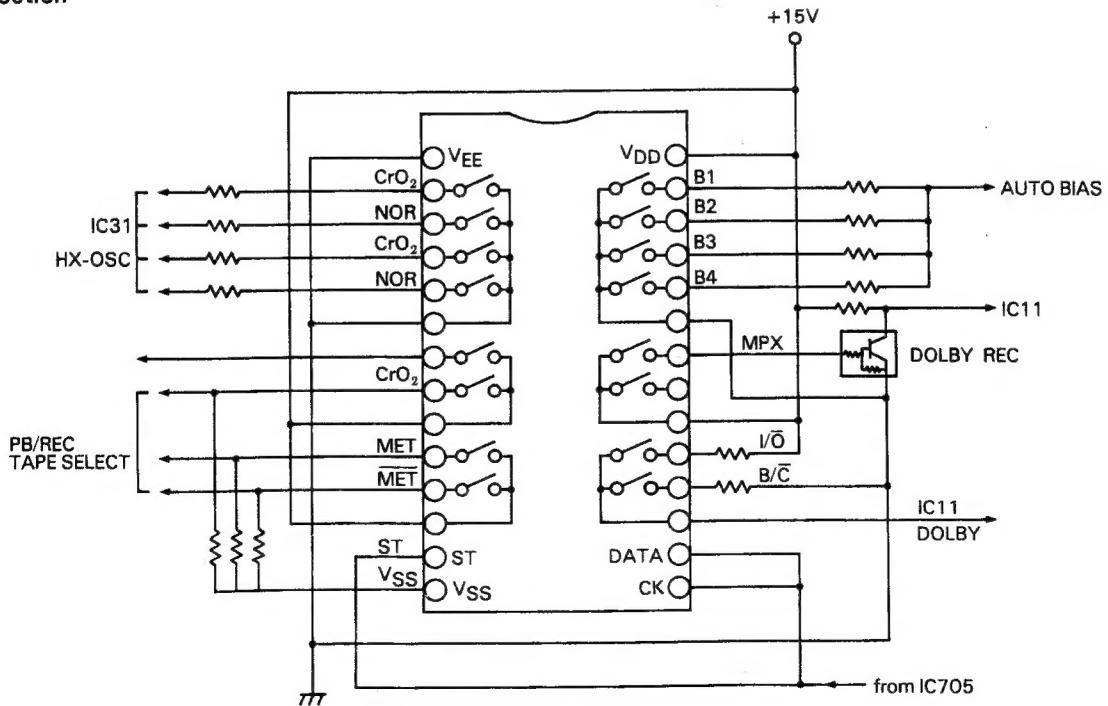
## CIRCUIT DESCRIPTION

Analog function switch array IC (TC9164N)

### Block diagram



### Pin connection



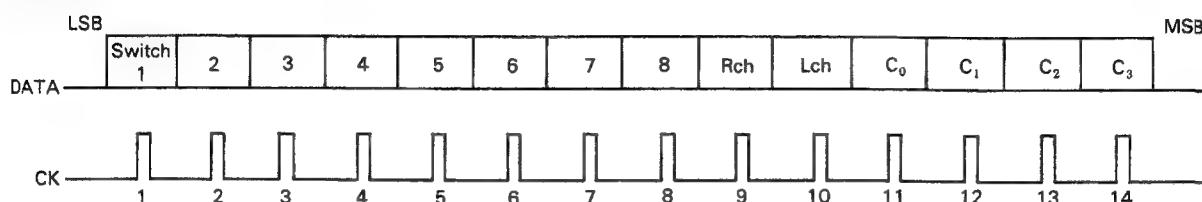
# CIRCUIT DESCRIPTION

## Description of Operation

### Data input

The TC9164N can control each analog switch by supplying appropriate data to the DATA, CK, and ST pins.

Data consists of 14 bits, as follows:

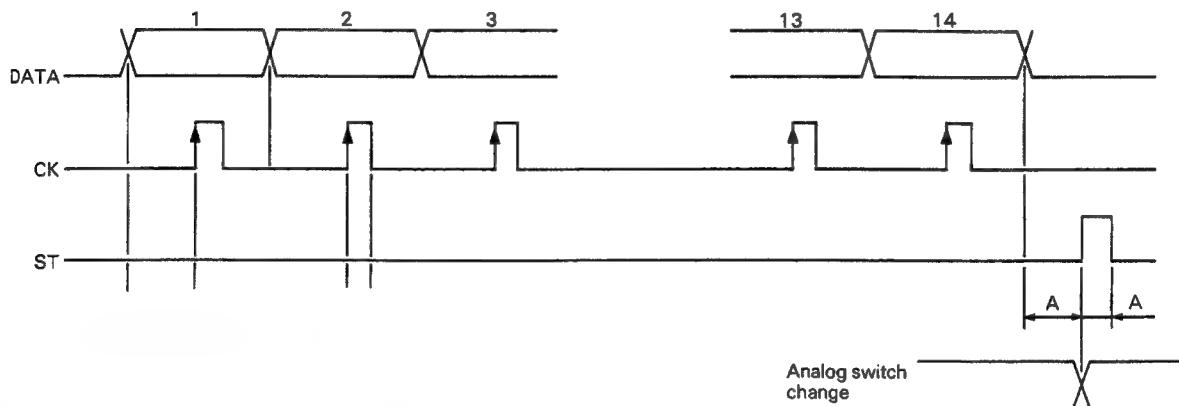


Bits 1 to 8 correspond to analog switches 1 to 8. Set the bit corresponding to the switch to be turned on to 1.

Bits 9 and 10 specify the right or left channel.

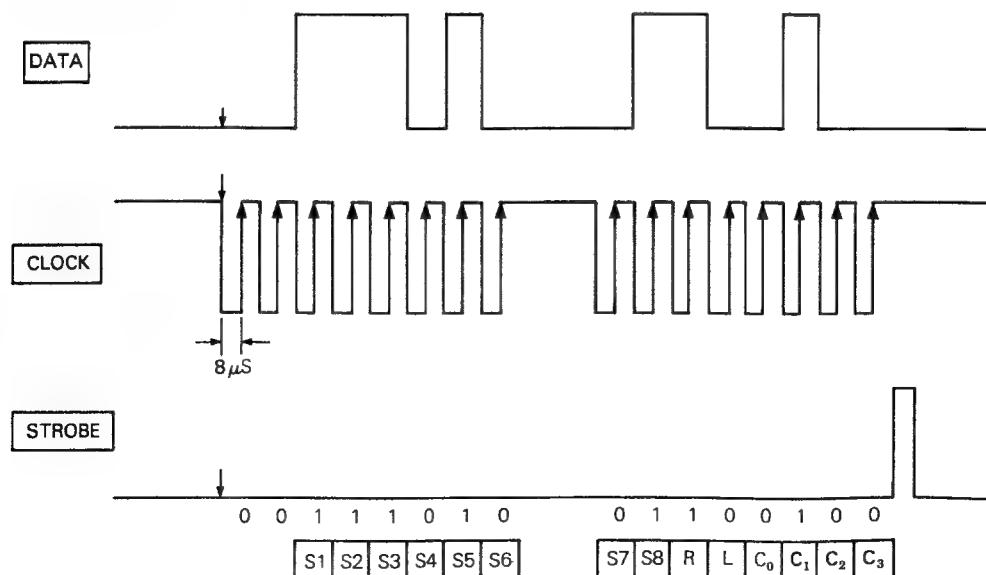
Bits 11 to 14 are code bits used to select chips. (0100 for the TC9164)

Data input to DATA is input to the internal shift register on the rising edge of the CK input signal. The input data is finally transferred to the latch circuit from the shift register with the ST signal, and the old data is replaced by the new.



### Example of transfer timing chart

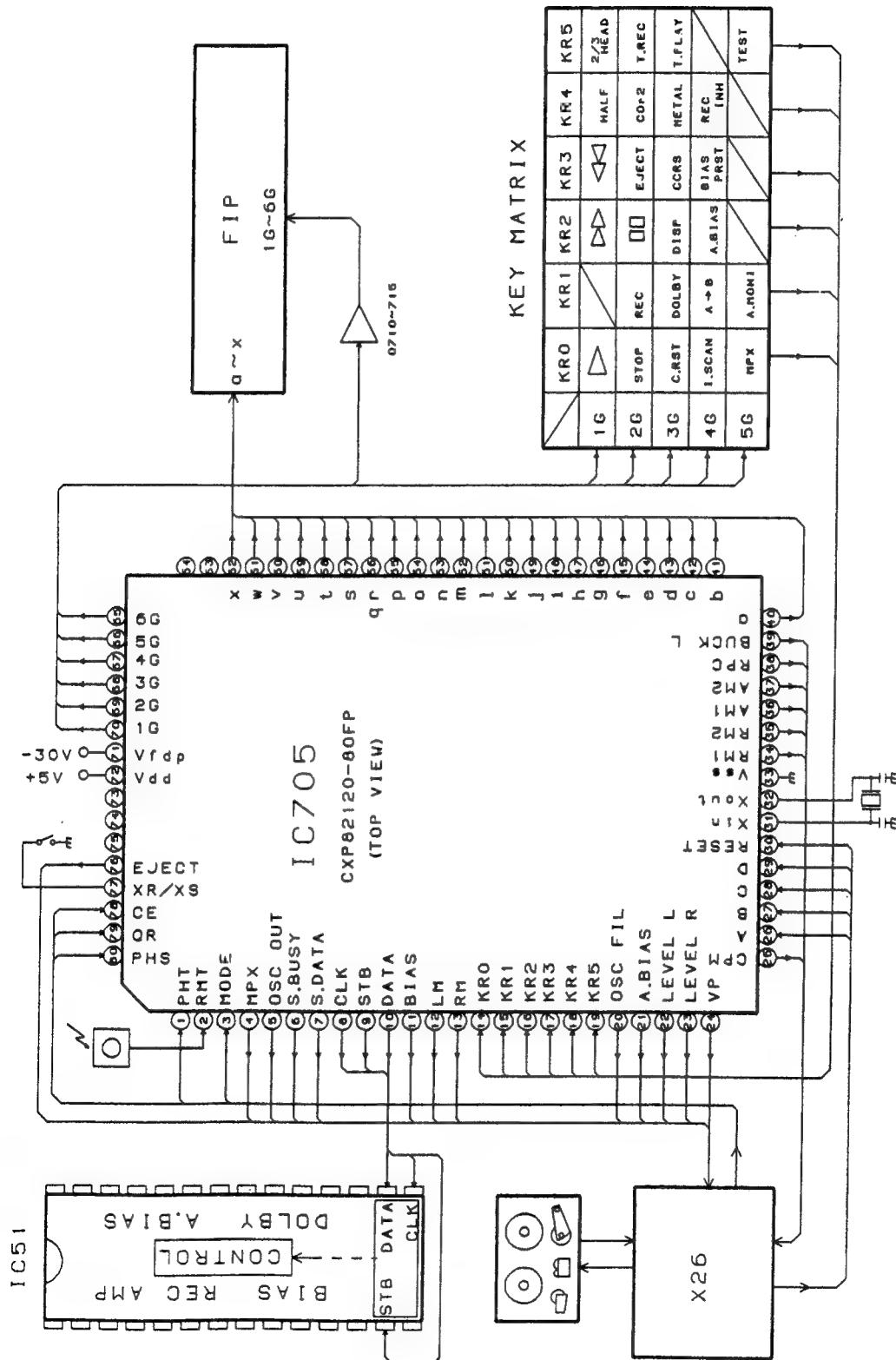
The above clock waveform is for 16 bits, but the first two bits are invalid. In this example, the R side of SW1, SW2, SW3, SW5, and SW8 conducts.



# KX-5030

## CIRCUIT DESCRIPTION

Microprocessor (CXP82120-80FP)



## CIRCUIT DESCRIPTION

## Pin Description

Pin No.	Pin name	I/O	Name	Description
1	PE3/INT3	I	PHOTO IN T.	Photosensor takeup side
2	PE4/RMC	I	REMO IN.	Remote control signal input pin
3	PE5	I	M. MODE	Mechanism operation mode identification
				H: 5030 L: OTHER
4	PE6	O	MIX	MPX FILTER ON/OFF
				H: OFF L: ON
5	PE7/TO	O	DSCOUT	Internal oscillator output pin for auto-bias 400 Hz or 10 kHz
6	PB0/CINT	I/O	SBUSY	Synchronizing pin for external equipment
7	PB1/CS0	I/O	S.DATA	Synchronizing pin for external equipment
8	PB2/SCK0	O	CLK	Selector IC drive pin
9	PB3/SI0	O	ST	Selector IC drive pin
10	PB4/SO0	O	DATA	Selector IC drive pin
11	PB5/SCK1	O	BIAS	Bias generation on/off during recording
				H: OFF L: ON
12	PB6/SI1	O	LINE MUTE	Line mute
13	PB7/SO1	O	REC MUTE	Rec mute
14	PC0/KR0	I	KR0	Key return
15	PC1/KR1	I	KR1	Key return
16	PC2/KR2	I	KR2	Key return
17	PC3/KR3	I	KR3	Key return
18	PC4/KR4	I	KR4	Key return
19	PC5/KR5	I	KR5	Key return
20	PC6/KR6	O	OSC FILTER	Switching filters for internal oscillation
				H: Line L: Internal
21	PC7/KR7	O	A. BIAS	Switching input for auto-bias
				H: Line L: Internal
22	PA0/AN0	I	LEVEL Lch	Level input pin Lch
23	PA1/AN1	I	LVEL Rch	Level input pin Rch
24	PA2/AN2	I	VOL POSITION	Motor-driven volume control position detection pin (for KX-5530 only)
25	PA3/AN3	O	Sankyo mechanism CPM	Capstan motor control
26	PA4/AN4	I	ROTARY SW A	Cam position detection switch for Sankyo mechanism
27	PA5/AN5	I	B	Cam position detection switch for Sankyo mechanism
28	PA6/AN6	I	C	Cam position detection switch for Sankyo mechanism
29	PA7/AN7	I	D	Cam position detection switch for Sankyo mechanism
30	RST	I		Reset input pin
31	EXTAL	I		Oscillator connection pin
				8.0 kHz
32	XTAL	O		Oscillator connection pin
33	Vss			Power connection pin
34	PD0/S0	O	FF	Reel motor control
35	PD1/S1	O	REW	Reel motor control
36	PD2/S2	O	ASM1	Assist motor control
37	PD3/S3	O	ASM2	Assist motor control
38	PD4/S4	O	RPC	Reel motor speed control
				H : PLAY L : Other
39	PD5/S5	O	VOLLED	Volume control LED control (For KX-3530 only)

## CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
40	PD6/S6	O	a	Segment drive pin
41	PD7/S7	O	b	Segment drive pin
42	PD8/S8	O	c	Segment drive pin
43	PF1/S9	O	d	Segment drive pin
44	PF2/S10	O	e	Segment drive pin
45	PF3/S11	O	f	Segment drive pin
46	PF4/S12	O	g	Segment drive pin
47	PF5/S13	O	h	Segment drive pin
48	PF6/S14	O	i	Segment drive pin
49	PF7/S15	O	j	Segment drive pin
50	S16	O	k	Segment drive pin
51	S17	O	l	Segment drive pin
52	S18	O	m	Segment drive pin
53	S19	O	n	Segment drive pin
54	S20	O	o	Segment drive pin
55	T15/S21	O	p	Segment drive pin
56	T14/S22	O	q,r	Segment drive pin
57	T13/S23	O	s	Segment drive pin
58	T12/S24	O	t	Segment drive pin
59	T11/S25	O	u	Segment drive pin
60	T10/S26	O	v	Segment drive pin
61	T9/S27	O	w	Segment drive pin
62	T8/S28	O	x	Segment drive pin
63	T7	O		Unused pin
64	T6	O		
65	T5	O	6G	Grid drive pin/Scanning for key reading
66	T4	O	5G	Grid drive pin/Scanning for key reading
67	T3	O	4G	Grid drive pin/Scanning for key reading
68	T2	O	3G	Grid drive pin/Scanning for key reading
69	T1	O	2G	Grid drive pin/Scanning for key reading
70	T0	O	1G	Grid drive pin/Scanning for key reading
71	V <sub>FDP</sub>			Pulldown power supply for fluorescent display tube drive pin (about -30 V)
72	V <sub>DD</sub>			Power supply pin +5V
73	N <sub>CVPP</sub>			NC
74	PG0	O	MOTORVOL UP	Motor-driven volume control drive pin up (For KX-5530 only)
75	PG1	O	MOTORVOL DOWN	Motor-driven volume control drive pin down (For KX-5530)
76	PG2	O	EJECT	Eject motor drive pin
77	PG3	I	SINCRO MODE	Synchronizing mode setting pin H: XR L: XS
78	PE8/INT0	I	CE	Backup detection pin H: normal L: Backup
79	PE1/INT1	I	QUICK REVERSE	Quick-reverse detection pin
80	PE2/INT2	I	PHOTO nj S.	Photosensor supply side

## CIRCUIT DESCRIPTION

## TIMING CHART

Port Name	Port No.	STOP→F. PLAY (STOP→F. REC)
KEY IN		
SOL	36	100 80 320 440
(HOLD)	37	840
CPM	25	
L. MUTE	12	940
R. MUTE	13	
BIAS	11	620 REC
FF	34	720
REW	35	20 REC

Port Name	Port No.	STOP→R. PLAY (STOP→R. REC)
KEY IN	A / B	
SOL	36	100 80 100 660
(HOLD)	37	840
CPM	25	
L. MUTE	12	940
R. MUTE	13	
BIAS	11	620 REC
FF	34	720 REC
REW	35	720

Port Name	Port No.	F. REC→STOP
KEY IN		
SOL	36	
SOL (HOLD)	37	
CPM	25	230
L. MUTE	12	
R. MUTE	13	
BIAS	11	4
FF	34	20
REW	35	

Port Name	Port No.	R. REC→STOP
KEY IN		
SOL	36	
SOL (HOLD)	37	
CPM	25	230
L. MUTE	12	
R. MUTE	13	
BIAS	11	4
FF	34	
REW	35	20

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## CIRCUIT DESCRIPTION

Port Name	Port No.	STOP→FF→STOP
KEY IN		
SOL	36	
(HOLD)	37	
CPM	25	
L. MUTE	12	
R. MUTE	13	
BIAS	11	
FF	34	
REW	35	

Port Name	Port No.	STOP→REW→STOP
KEY IN		
SOL	36	
(HOLD)	37	
CPM	25	
L. MUTE	12	
R. MUTE	13	
BIAS	11	
FF	34	
REW	35	

Port Name	Port No.	F. PLAY→CUE (R. PLAY→REVIEW)
KEY IN		
SOL	36	
(HOLD)	37	
CPM	25	
L. MUTE	12	
R. MUTE	13	
BIAS	11	
FF	34	
REW	35	

Port Name	Port No.	F. PLAY→REVIEW (R. PLAY→CUE)
KEY IN		
SOL	36	
(HOLD)	37	
CPM	25	
L. MUTE	12	
R. MUTE	13	
BIAS	11	
FF	34	
REW	35	

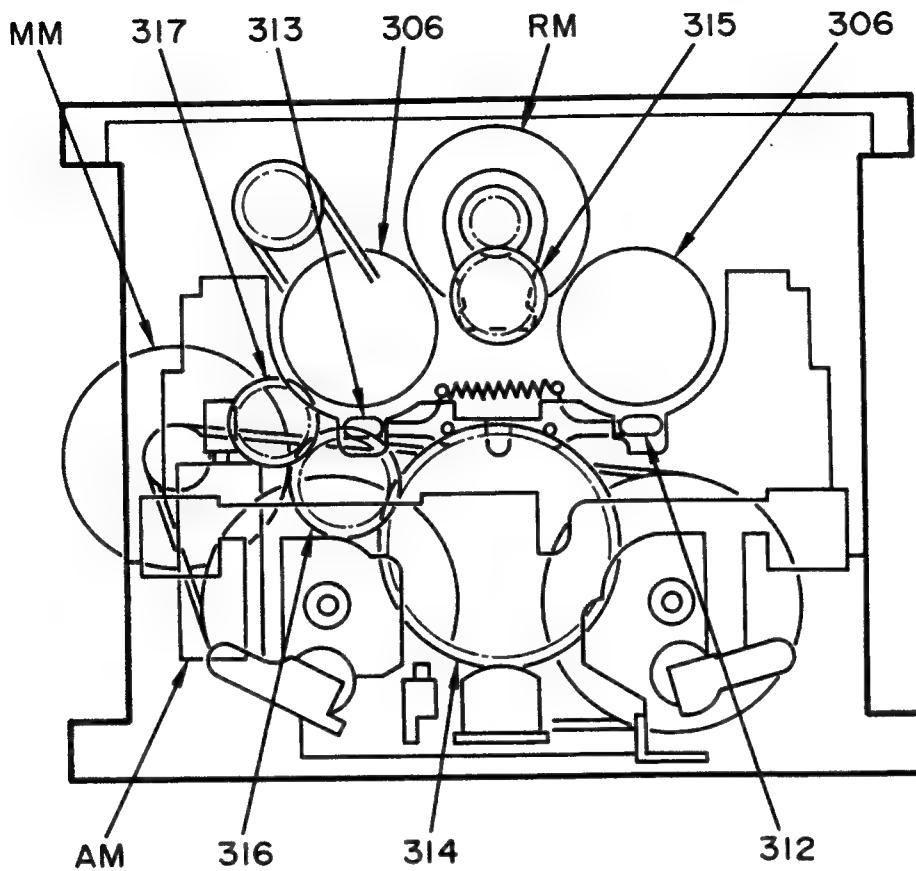
**KX-5030**

## **CIRCUIT DESCRIPTION**

Port Name	Port No.	F. CUE→STOP (R. REVIEW→STOP)
KEY IN		
SOL	36	340
(HOLD)	37	340
CPM	25	490
L. MUTE	12	
R. MUTE	13	
B. BIAS	11	
FF	34	280 60
REW	35	160

Port Name	Port No.	F. REVIEW→STOP (R. CUE→STOP)
KEY IN		
SOL	36	340
(HOLD)	37	340
CPM	25	490
L. MUTE	12	
R. MUTE	13	
B. BIAS	11	
FF	34	160
REW	35	280 60

## MECHANISM DESCRIPTION



### Mechanism specifications

#### Motor

MM	T42-0595-08
RM	T42-0592-08
AM	T42-0593-08

PLAY torque: 35~55 g·cm  
FF/RWD torque: 70~160 g·cm  
Back tension torque: 2~5 g·cm

# MECHANISM DESCRIPTION

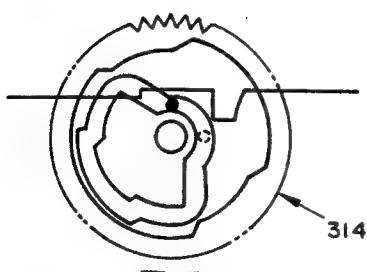
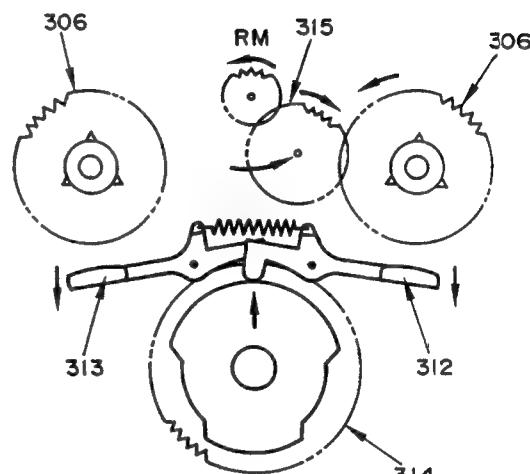
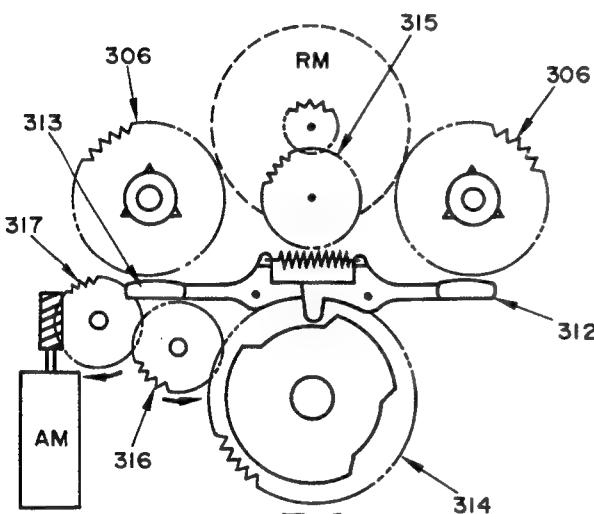
## Description of Operation

### Playback/Record

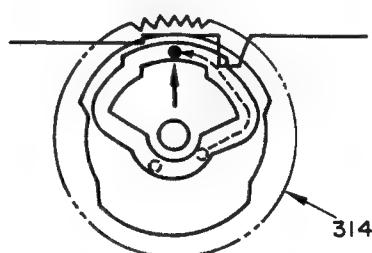
1. The assist motor runs.
2. Relay gears A and B turn the cam gear in the direction of the arrow, raising the boss on the head chassis. The pinch roller is pressed against the capstan.
3. In the PLAY position, the reel brake is released by the cam on the cam gear.
4. The reel motor runs in the direction of the arrow, and the idler gear starts turning the takeup reel in the direction of the arrow to start playback/recording.

Playback/record → STOP

The assist motor runs, and the operations up to playback/record are reversed.



**STOP**



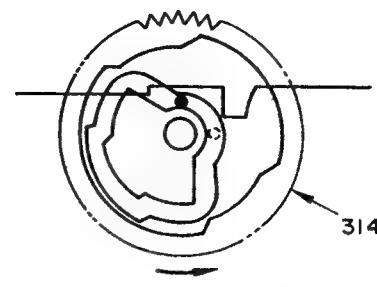
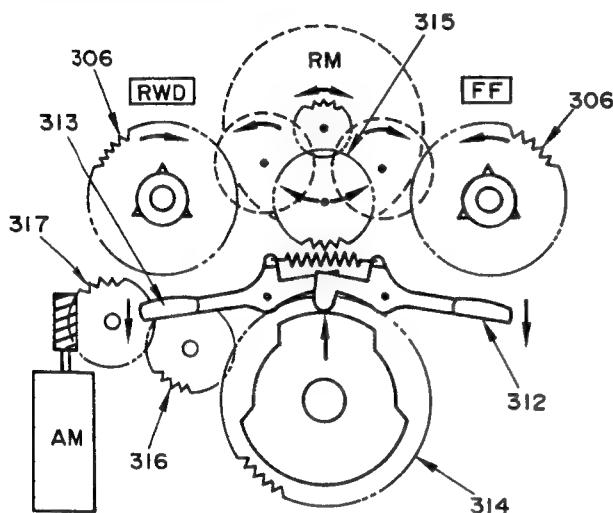
**PLAY/REC**

# KX-5030

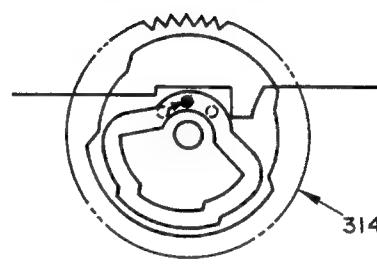
## MECHANISM DESCRIPTION

### Fast forward/rewind

1. The assist motor rotates the cam gear, and the brake assembly is disengaged from the takeup and supply reels. The head chassis is not lifted, and the pinch roller and head do not contact the tape.
2. The reel motor starts running in the fast forward or rewind directions to wind the tape forward or in reverse.



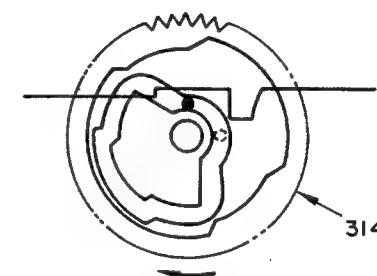
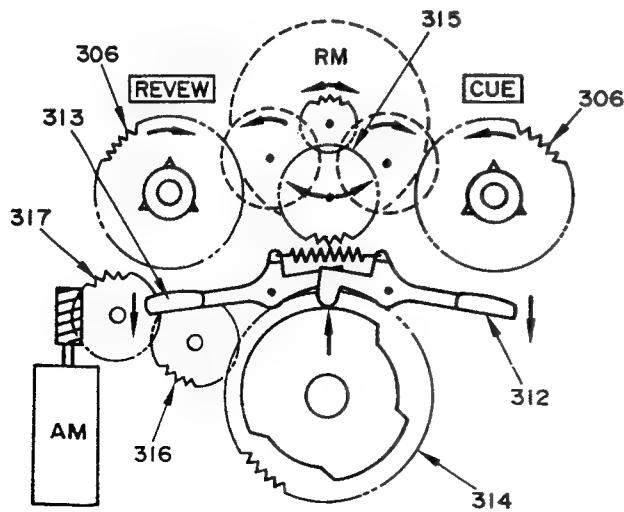
STOP



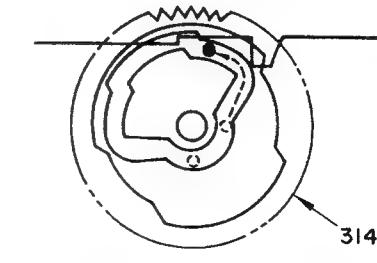
FF / RWD

### Cue/review

1. The assist motor runs, the cam gear turns, and the head chassis is raised. The pinch roller is also raised, but is not pressed against the capstan. The head contacts the tape.
2. The reel motor runs in the cue and review directions. When the motor runs in the cue direction, the takeup reel is turned by the idler gear; when the motor runs in the review direction, the supply reel turns to wind the tape.



STOP



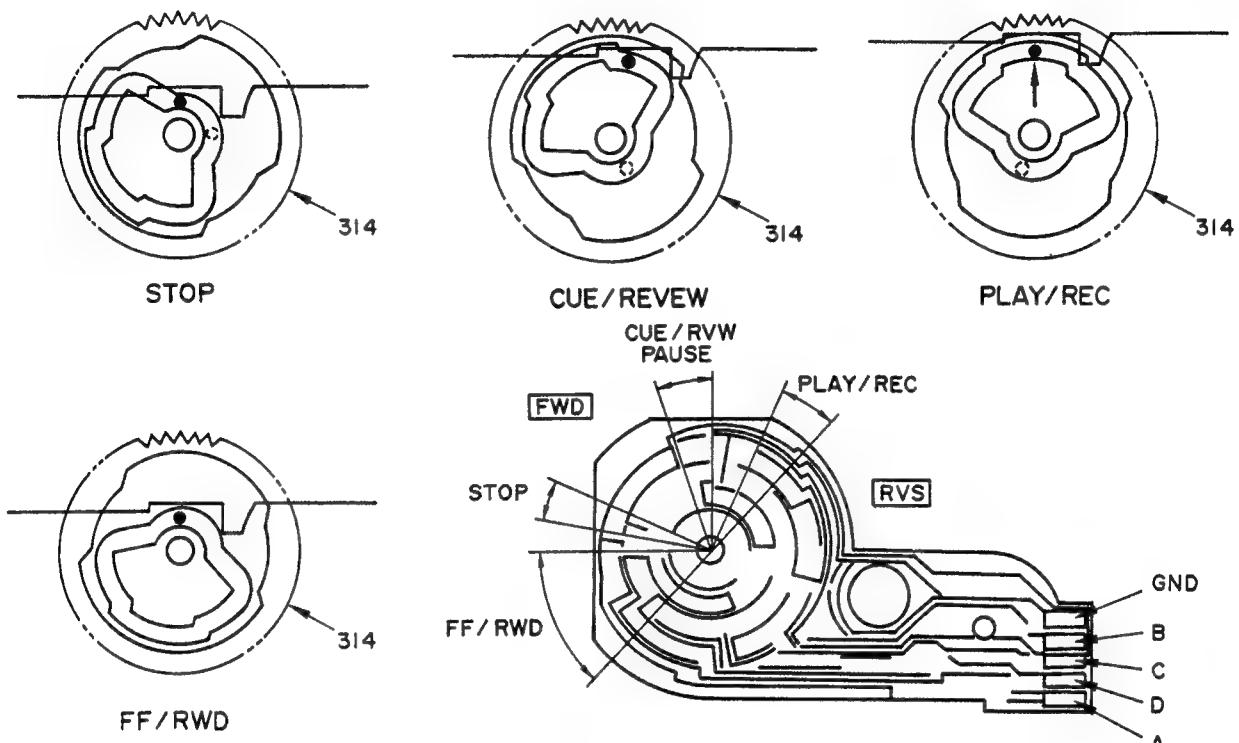
CUE / REVIEW

# MECHANISM DESCRIPTION

## Rotary switch operation

The operation of the mechanism is determined by the position of the rotary switch on the cam gear. Data on rotary switches A to D is input to the micropocessor to control

the assist motor, turn the cam gear, and control the head position and the brake assembly.



## Rotary switch cam flow

Direction	RVS (unused)						FWD							
	PLAY		PAUSE CUE REV		STOP		FF/RWD		STOP		PAUSE CUE REV			
Mode	20°	24°	18°	46°	14.5°	11°	46.5°	46.3°	11°	14.5°	46°	18°	24°	20°
Cam angle	A H L							(L)	(L)		(H)		(H)	
	B H L							(L)	(H)		(H)		(L)	
	C H L							(H)	(L)		(H)		(L)	
	D H L							(H)	(H)		(H)		(H)	
Rotary switch	PLAY													
	PAUSE													
	STOP													
Head base position (approximate)														

# KX-5030

## ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified; each switch should be set as follows: TAPE: NORMAL, DOLBY: OFF, INPUT: LINE							0 dBs - 0.775 V
I. Cassette mechanism section (REC/PB head adjustment)							
[1]	Demagnetization and cleaning	—	—	Power OFF, demagnetization, cleaning play	REC/PB head, erase head, capstan, pinch roller	Demagnetize the REC/PB head by head eraser. Clean the REC/PB head, erase head, capstan and pinch roller with a cotton swab immersed in alcohol.	
[2]	REC/PB head azimuth	MTT-114, TCC-153 10 kHz, -10 dB SCC-1727	(B)	PLAY	Azimuth adjustment screw	In a setting where the output is maximized, adjust the azimuth adjustment screw so that the Lissajous figure appearing on the oscilloscope screen comes near to a line slanted 45°. Note: The head should be installed in such a manner that it approaches the tape face.	(a)
[3]	Tape speed	MTT-111. TCC-100 SCC-1727 3 kHz, -4 dB	(B)	PLAY	* Semi-fixed resistor in DC motor assembly	Adjust so that frequency is 3 kHz at the center of the tape.	(b)
II. PC board adjustment (X26-125X-XX)							
<1>	Playback level	MTT-150 400 Hz	(B)	PLAY	VR1 (L) VR2 (R)	Adjust so that LINE OUT is -1.2 dBs.	
		MTT-256 SCC-1727 315 Hz				Adjust so that LINE OUT is -4.0 dBs.	
		MTT-256U, TCC-160 315 Hz				Adjust so that LINE OUT is 0 dBs.	
<2>	Bias current	(A) 1kHz, -30 dBs 10 kHz, -30 dBs	(B)	Adjust the REC VR (LEVEL, BALANCE) so that the REC monitor output is -24 dBs at 1 kHz, and record and playback 1 kHz and 10 kHz alternately.	VR31(L) VR32(R)	Record 1 kHz and 10 kHz alternately, and adjust each bias current adjustment VR so that the 10 kHz play back level is +0.5 dBs against 1 kHz.	
<3>	FL meter 0 dB	(A) 1 kHz, -10 dBs	—	Adjust the REC VR (LEVEL, BALANCE) so that the REC PAUSE monitor output is -4 dBs at 1 kHz.	VR95(R)	Adjust so that "0 dB" lights.	
Note: On item <1> in "II. PC board adjustment"							
Although 3 kinds of tapes are set forth for the playback level adjustment, the use of one tape suffices for adjustment. Here is meant no necessity for the use of all these 3 kinds of tapes. Other than the abovementioned tapes, when a test tape equal in magnetic flux and frequency is available, the adjustment is feasible with this test tape by making the playback output suited to the specified output level of this tape in agreement with the adjustment method.							

\* For your safety, remove the MECHANISM Assy with FRONT PANEL & PCB when you adjust tape speed.

## REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETOPHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
Chaque commutateur doit être réglé comme suit, à moins d'indication contraire.							0 dBs = 0,775 V
TAPE: NORMAL, DOLBY: OFF, INPUT: LINE							
I. Section de mécanisme de la cassette (ajustement de la tête d'enregistrement/lecture)							
[1]	Démagnétisation et nettoyage	—	—	Alimentation coupée, démagnétisation, nettoyage, lecture	Tête d'enregistrement/lecture, tête d'effacement, cabestan, galet presseur	Démagnétiser la tête d'enregistrement/lecture avec l'effaceur de tête. Nettoyer la tête d'enregistrement/lecture, la tête d'effacement, le cabestan et le galet presseur avec un coton-tige trempé dans de l'alcool.	
[2]	Azimut de la tête d'enregistrement/lecture	SCC-1727 MTT-114, TCC-153 10 kHz, -10 dB	(B)	PLAY	Vis d'ajustement de l'azimut	Au réglage où la sortie est maximisée, ajuster la vis de réglage de l'azimut pour que la figure de Lissajous sur l'écran de l'oscilloscope soit proche d'une ligne inclinée sur 45°. Remarque: La tête doit être installée de manière à ce qu'elle s'approche de la face de la bande.	(a)
[3]	Vitesse de la bande	SCC-1727 MTT-111. TCC-100 3 kHz, -4 dB	(B)	PLAY	Résistance semi-fixe dans l'ensemble du moteur CC.	Ajuster pour que la fréquence soit, 3 kHz au centre de la bande.	(b)
II. Ajustement de la plaque de circuits imprimés (X26-125X-XX)							
<1>	Niveau de lecture	MTT-150 400 Hz	(B)	PLAY	VR1 (L) VR2 (R)	Ajuster pour que LINE OUT soit -1,2 dBs.	
		MTT-256, SCC-1727 315 Hz				Ajuster pour que LINE OUT soit -4,0 dBs.	
		MTT-256U, TCC-160 315 Hz				Ajuster pour que LINE OUT soit 0 dBs.	
<2>	Courant de polarisation	(A) 1kHz, -30 dBs 10 kHz, -30 dBs	(B)	Ajuster la VR REC (LEVEL, BALANCE) pour que la sortie de contrôle REC soit -24 dBs à 1 kHz et l'enregistrement et la lecture 1 kHz et 10 kHz alternativement.	VR31(L) VR32(R)	Enregistrer 1 kHz et 10 kHz alternativement et ajuster chaque VR d'ajustement de courant de polarisation pour que le niveau de lecture 10 kHz soit +0,5 dBs contre 1.	
<3>	Compteur fluorescent 0 dB	(A) 1 kHz, -10 dBs	—	Ajuster la VR REC (LEVEL, BALANCE) pour que la sortie de contrôle REC PAUSE soit -4 dBs à 1 kHz.	VR95(R)	Ajuster pour que "0 dB" s'allume.	
Remarque: Sur le paragraphe <1> de II. Ajustement de la plaque de circuits imprimés.							
Bien que 3 sortes de bandes soient employées pour l'ajustement du niveau de lecture, l'utilisation d'une bande suffit pour l'ajustement. En plus des bandes citées ci-dessus, quand une bande test de flux magnétique et de fréquence égaux est disponible, l'ajustement est possible en réglant la sortie de lecture sur le niveau de sortie spécifique à cette bande, selon la méthode d'ajustement.							

\* Pour des raisons de sécurité, déposer le mécanisme avec le panneau avant et le PCB pour régler la vitesse de la bande.

# KX-5030

## ABGLEICH

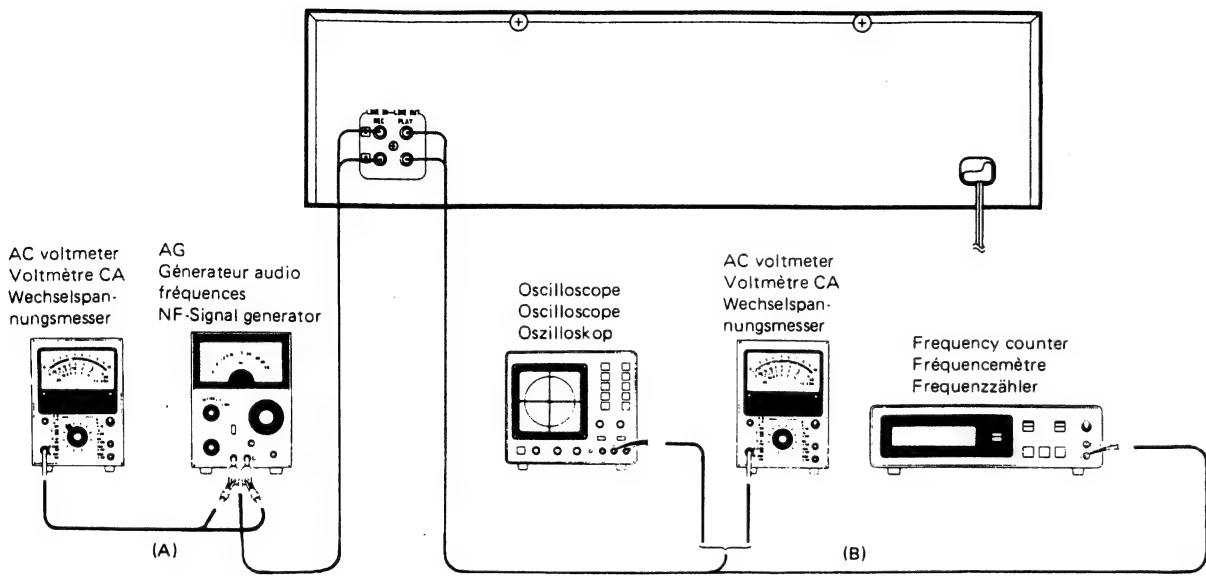
NR	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERÄT-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
Falls nicht anders angegeben, müssen die einzelnen Schalter wie folgt eingestellt sein:							0 dBs = 0,775 V
TAPE: NORMAL, DOLBY: OFF, INPUT: LINE							
[1]	Entmagnetisierung und Reinigung	—	—	Spannungsversorgung aus, Entmagnetisierung, Reinigung, Wiedergabe	Aufnahme/Wiedergabekopf, Löschkopf, Tonwelle, Andruckrolle	Den Aufnahme/Wiedergabekopf mit einem Entmagnetisierer entmagnetisieren. Den Aufnahme/Wiedergabekopf, den Löschkopf, die Tonwelle und die Andruckrolle mit einem in Alkohol eingetauchten Wattestäbchen reinigen.	
[2]	Aufnahme/Wiedergabekopf-Azimut	SCC-1727 MTT-114, TCC-153 10 kHz, -10 dB	(B)	PLAY	Azimut-Einstellschraube	Bei der Einstellung, bei der der Ausgang maximal ist, so einstellen, daß die auf die Azimut-Einstellschraube dem Oszilloskop-Bildschirm erscheinende Lissajousfigur nahe einer um 45° geneigten Linie kommt. Hinweis: Der Tonkopf muß so installiert sein, daß er zum Band weist.	(a)
[3]	Bandgeschwindigkeit	SCC-1727 MTT-111, TCC-100 3 kHz, -4 dB	(B)	PLAY	※ semi-fester Widerstand in der Gleichstrommotor-Einheit	So einstellen, daß die Frequenz in der Mitte des Bandes 3 kHz beträgt.	(b)
II. Platinen-Einstellung (X26-125X-XX)							
<1>	Wiedergabepiegel	MTT-150 400 Hz	(B)	PLAY	VR1 (L) VR2 (R)	So einstellen, daß LINE OUT -1,2 dBs beträgt.	
		MTT-256, SCC-1727 315 Hz				So einstellen, daß LINE OUT -4,0 dBs beträgt.	
		MTT-256U, TCC-160 315 Hz				So einstellen, daß LINE OUT 0 dBs beträgt.	
<2>	Vormagnetisierungsstrom	(A) 1kHz, -30 dBs 10 kHz, -30 dBs	(B)	Den REC-Regelwiderstand (LEVEL, BALANCE) so einstellen, daß der REC-Überwachungsausgang -24 dBs bei 1 kHz beträgt, und 1 kHz und 10 kHz abwechselnd aufnehmen und wiedergeben.	VR31(L) VR32(R)	1 kHz und 10 kHz abwechselnd aufnehmen und jeden Vormagnetisierungsstrom-Einstellungs-Regelwiderstand so einstellen, daß der 10-kHz-Wiedergabepiegel +0,5 dB gegen 1 kHz beträgt.	
<3>	FL-Meter 0 dB	(A) 1 kHz, -10 dBs	—	Den REC-Regelwiderstand (LEVEL, BALANCE) so einstellen, daß der REC PAUSE-Überwachungsausgang -4 dBs bei 1 kHz beträgt.	VR95(R)	So einstellen, daß "0 dB" leuchtet.	
Hinweis: Zu Punkt <1> in "II. Platinen-Einstellung"							
Obwohl 3 Arten von Bändern für die Wiedergabepiegel-Einstellung vorgegeben sind, reicht die Verwendung eines Bandes für die Einstellung aus. Das bedeutet, daß nicht alle 3 Arten Bänder verwendet werden brauchen. Wenn ein anderes Testband als die oben angeführten Bänder mit gleichen magnetischen Fluß und gleicher Frequenz verfügbar ist, kann die Einstellung mit diesem Testband durchgeführt werden, indem der Wiedergabe-Ausgang für den spezifizierten Ausgangspegel dieses Bandes in Übereinstimmung mit der Einstellmethode passend gemacht wird.							

\* Zur Sicherheit sollten Sie zum Einstellen der Bandgeschwindigkeit die Laufwerk-Baugruppe zusammen mit der Frontplatte und der Leiterplatte entfernen.

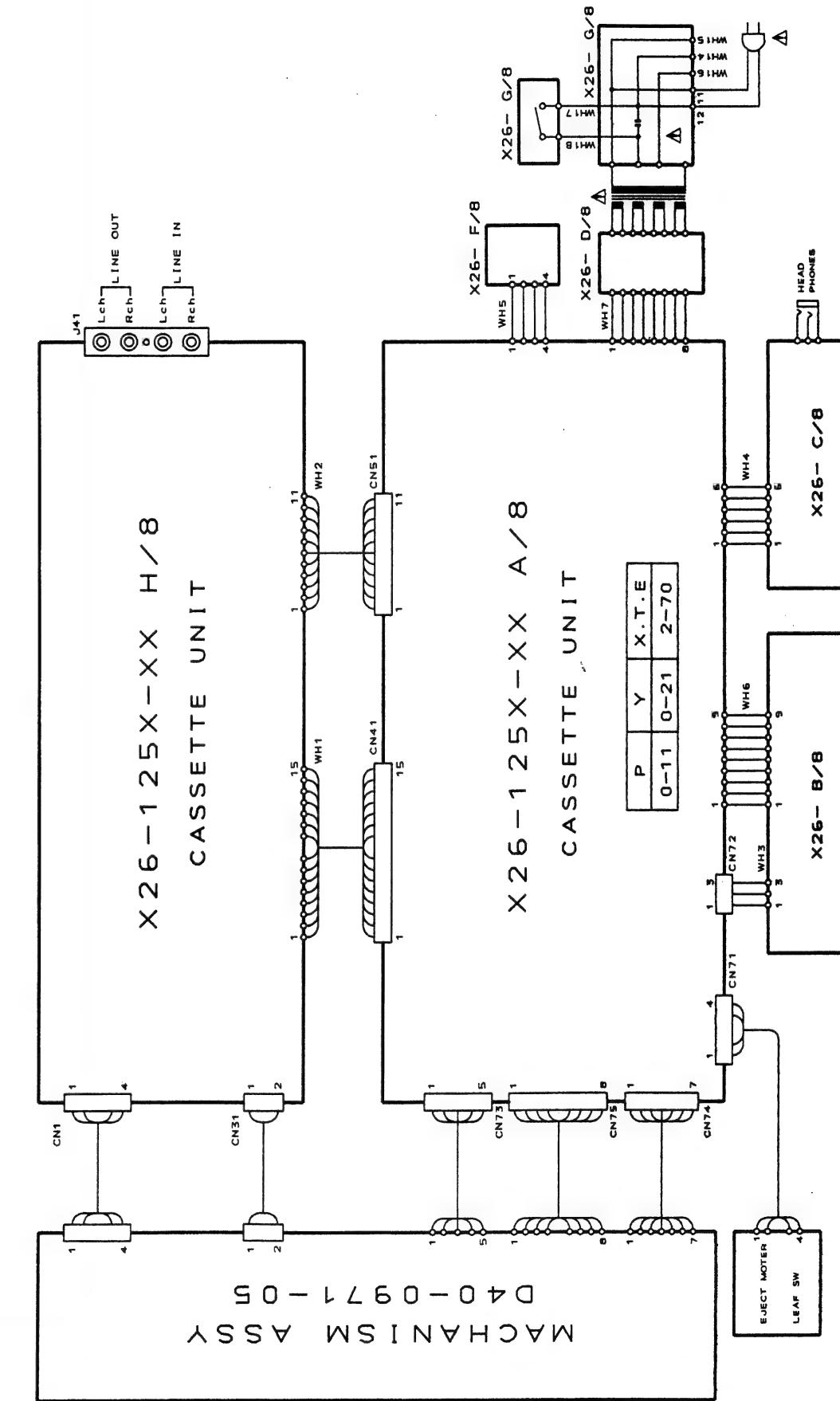
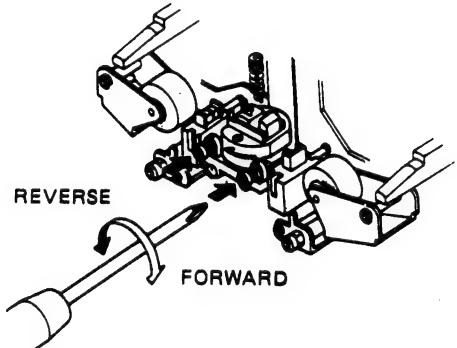
## ADJUSTMENT/REGLAGE/ABGLEICH

## WIRING DIAGRAM

### Measurement Equipment Connections:

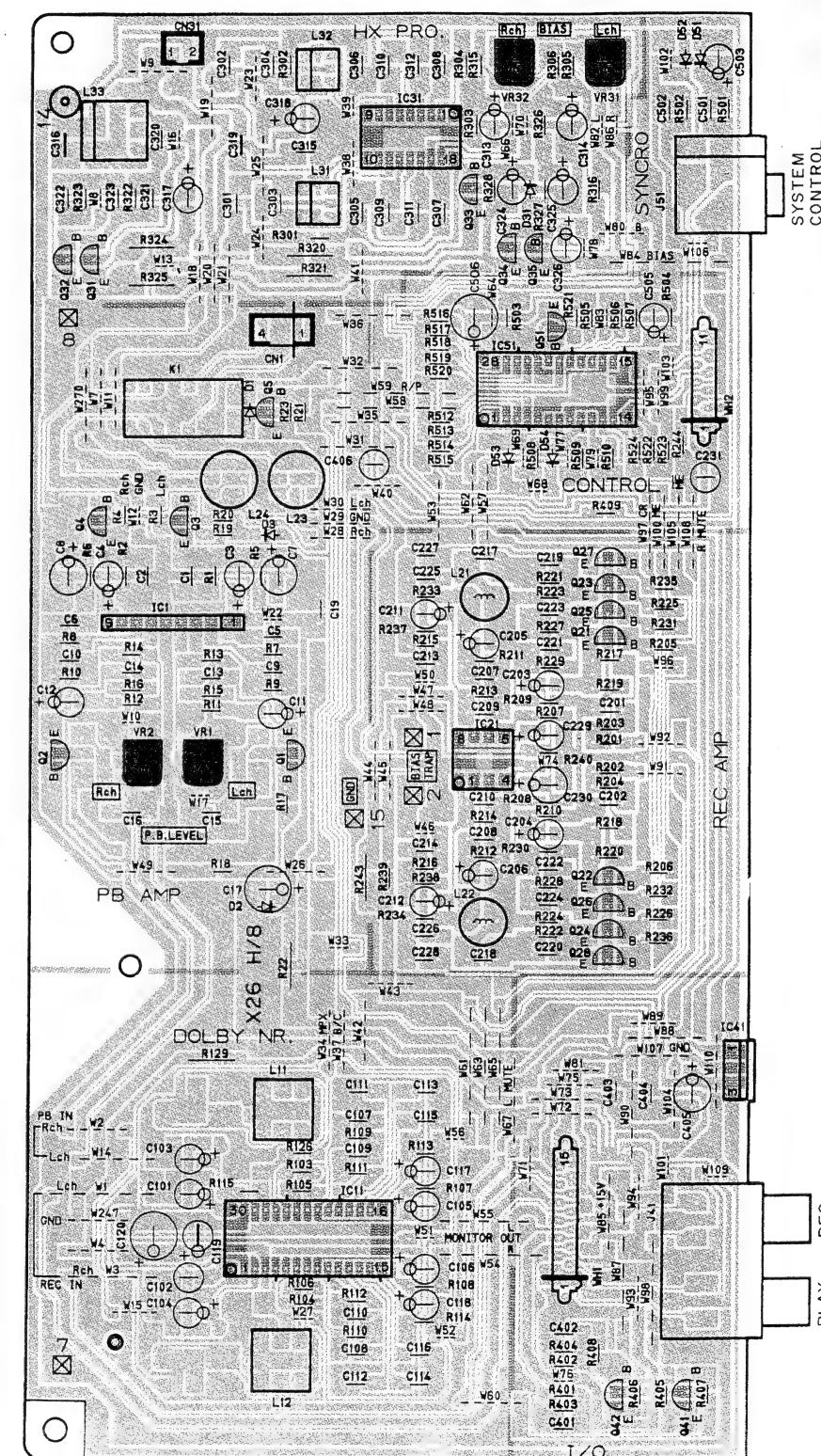
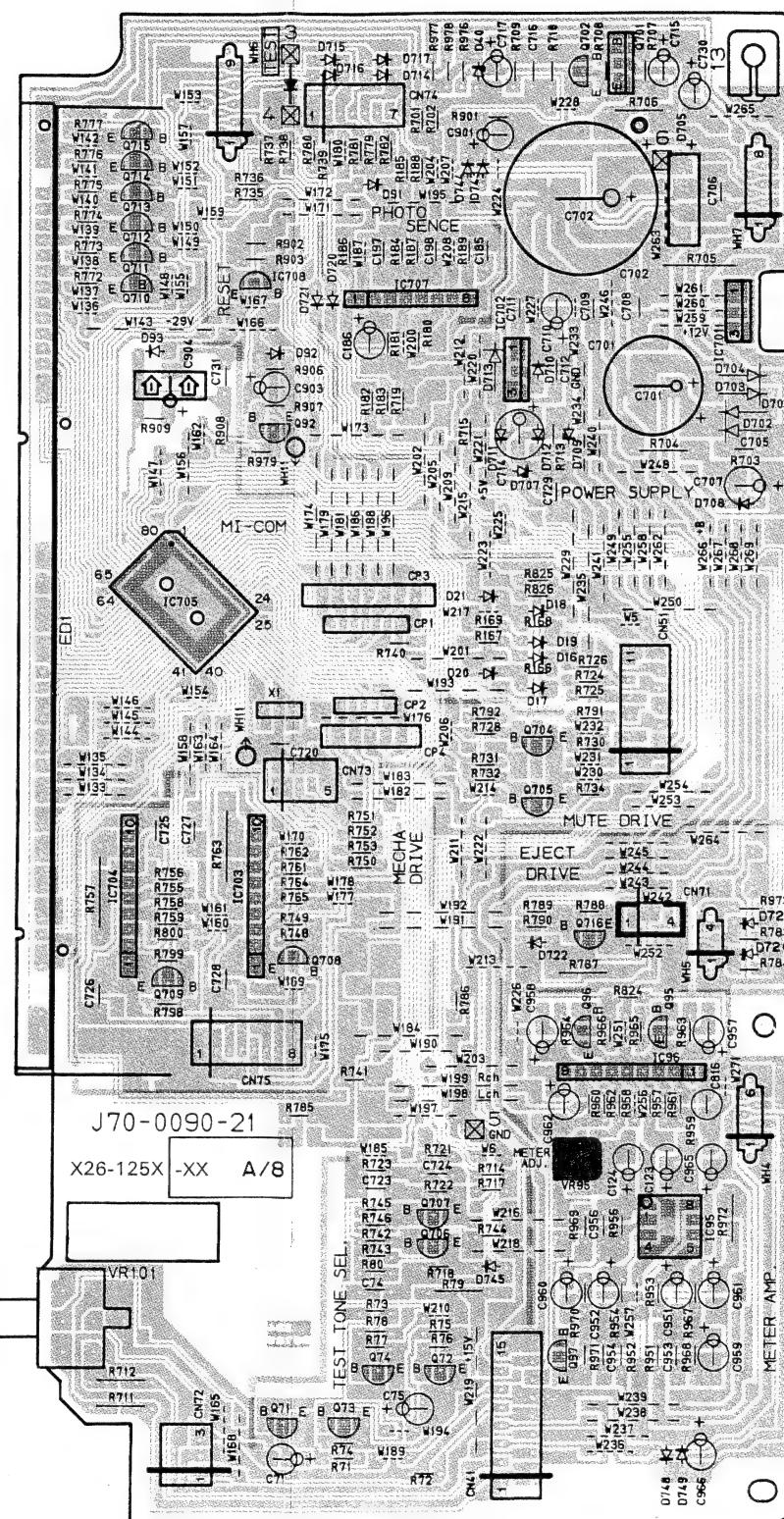
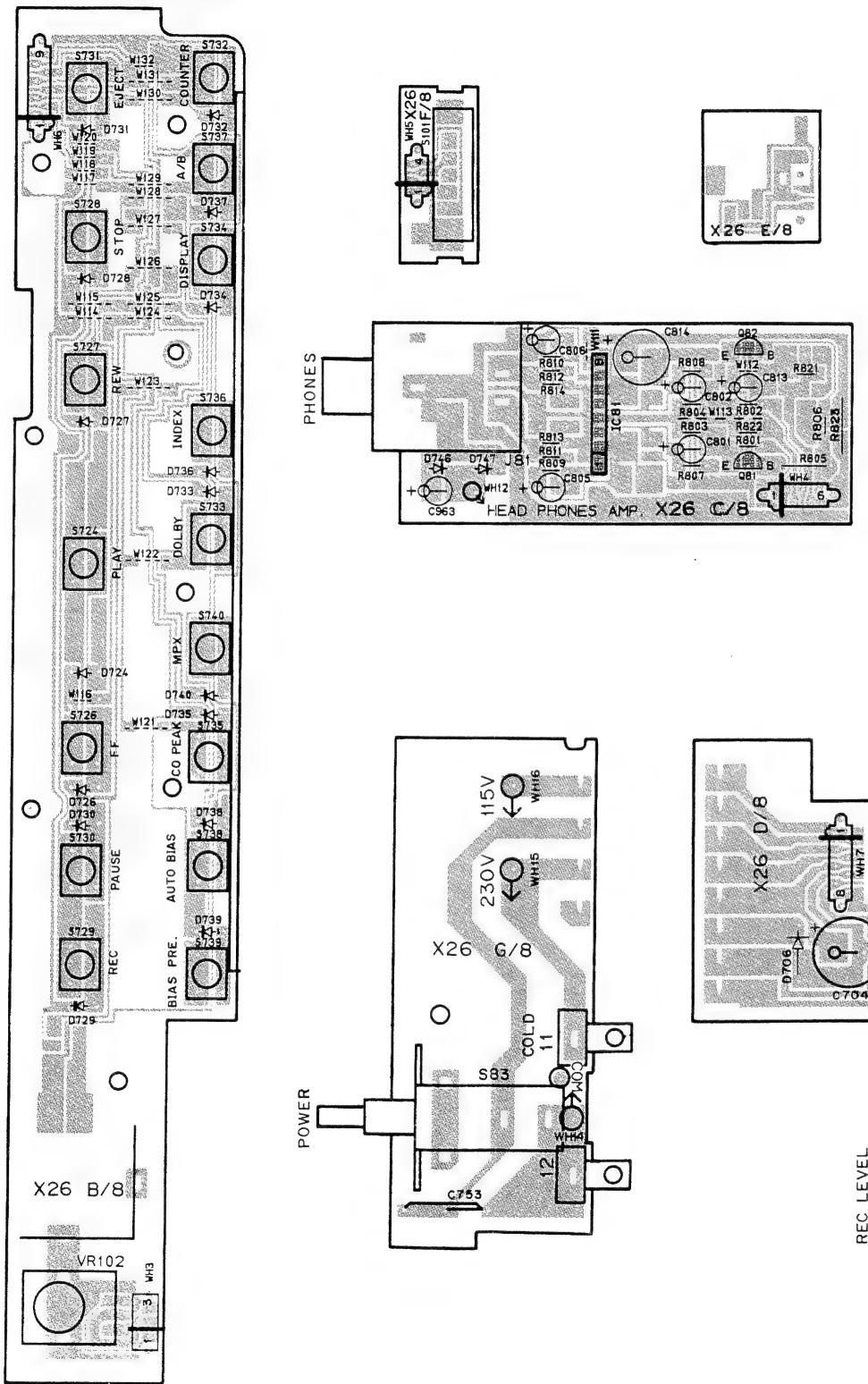


(a) Azimuth adjustment

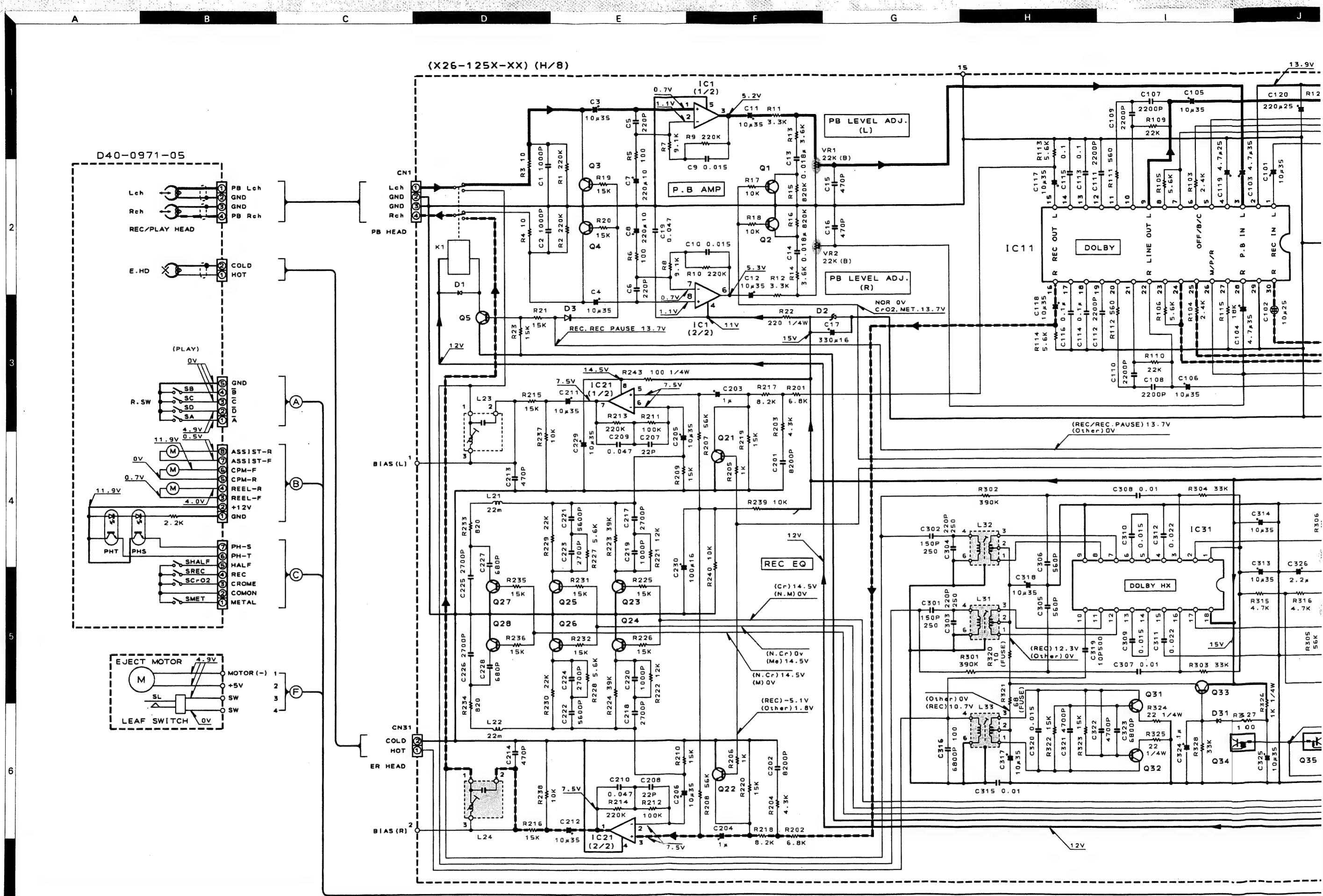


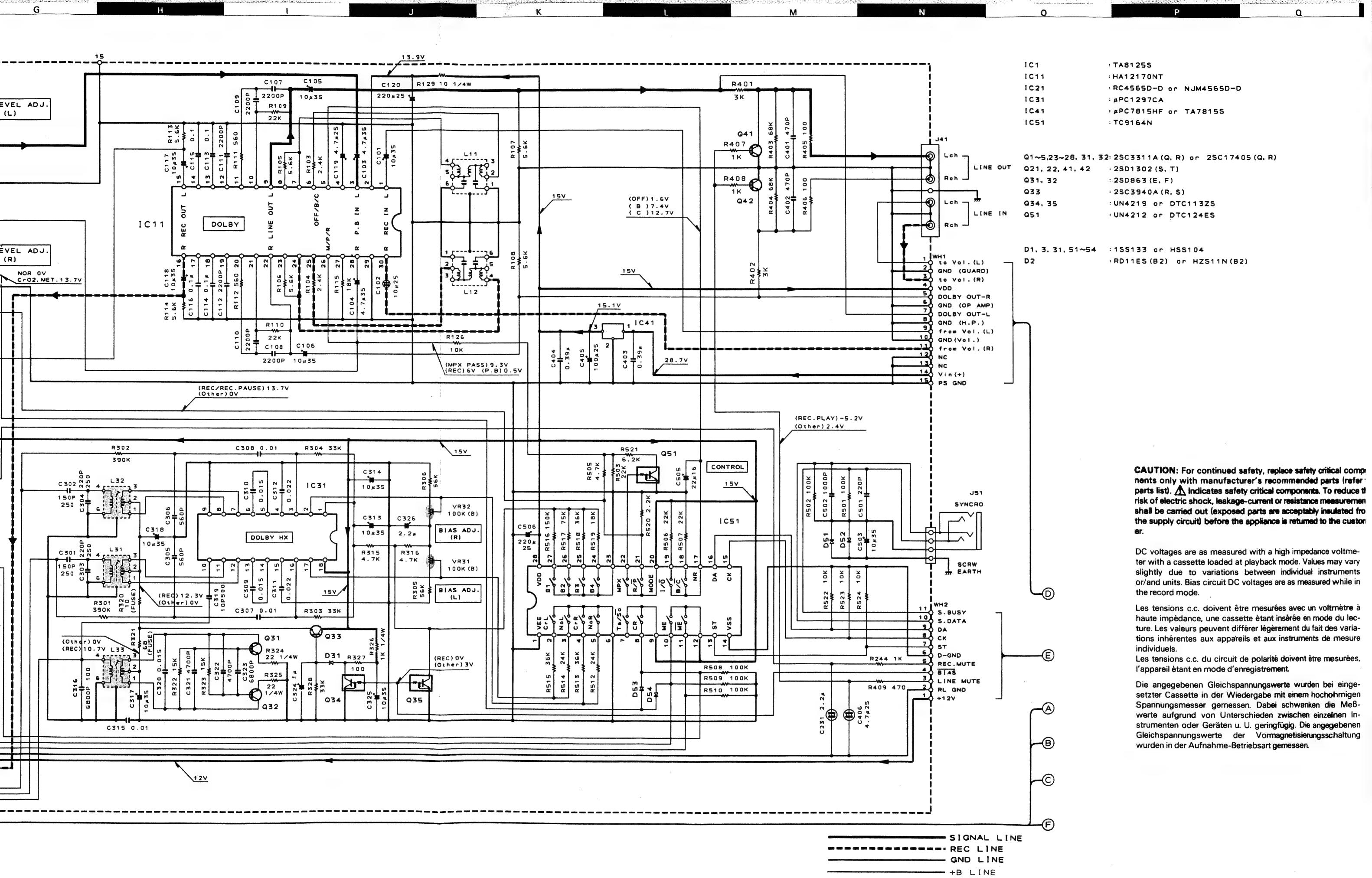
**PC BOARD**

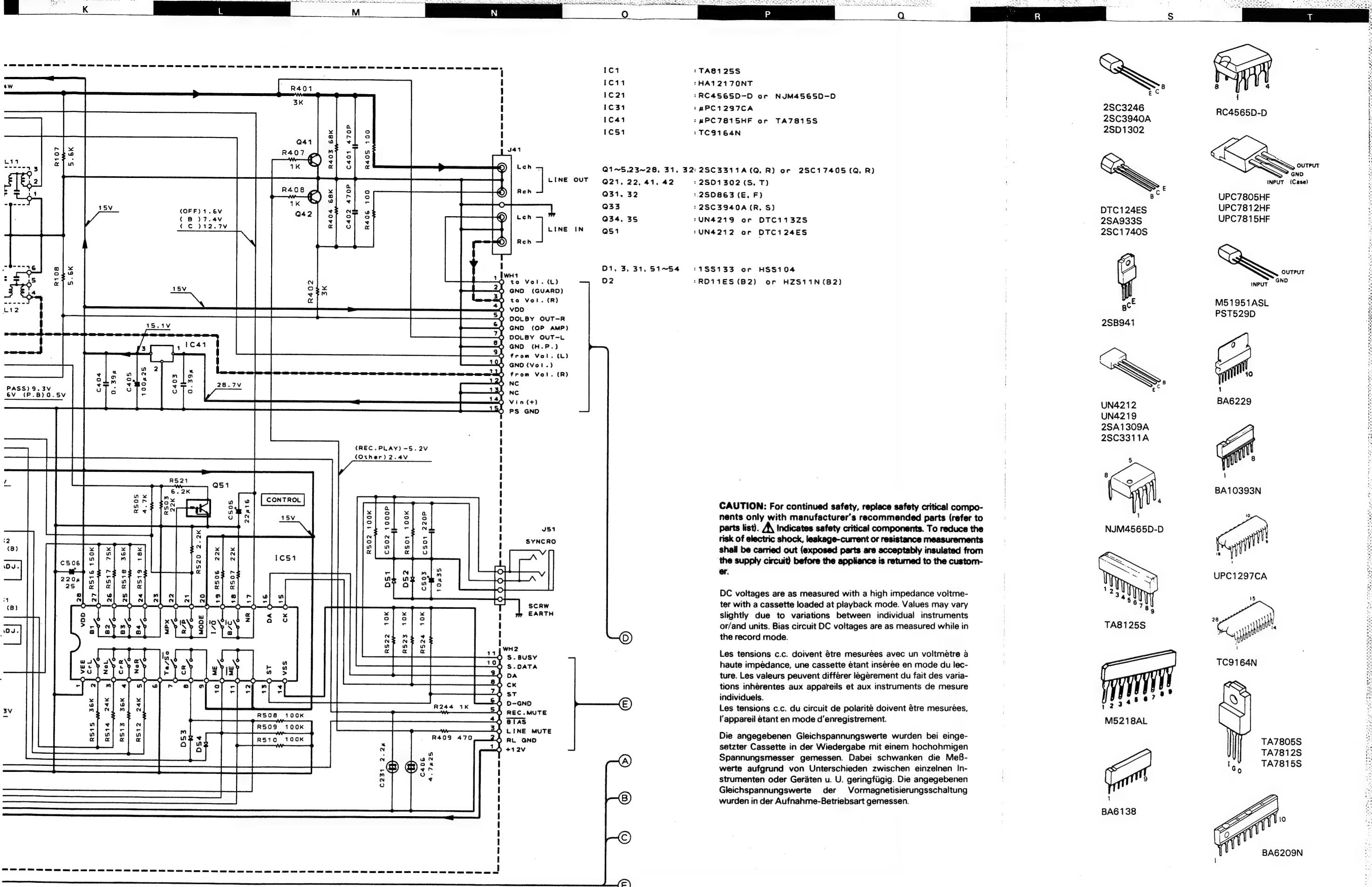
**FRONT**



Refer to the schematic diagram for the values of resistors and capacitors.



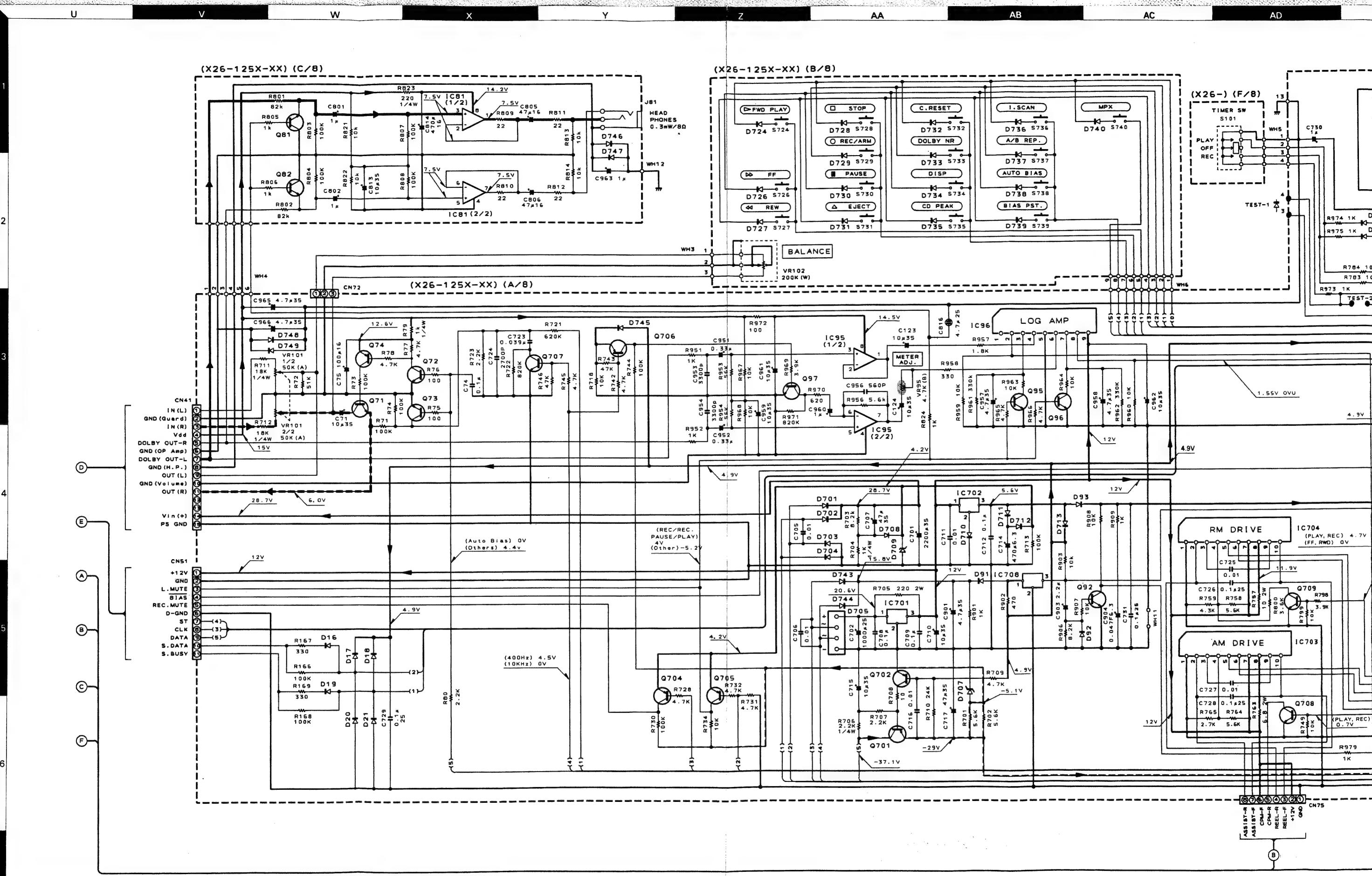


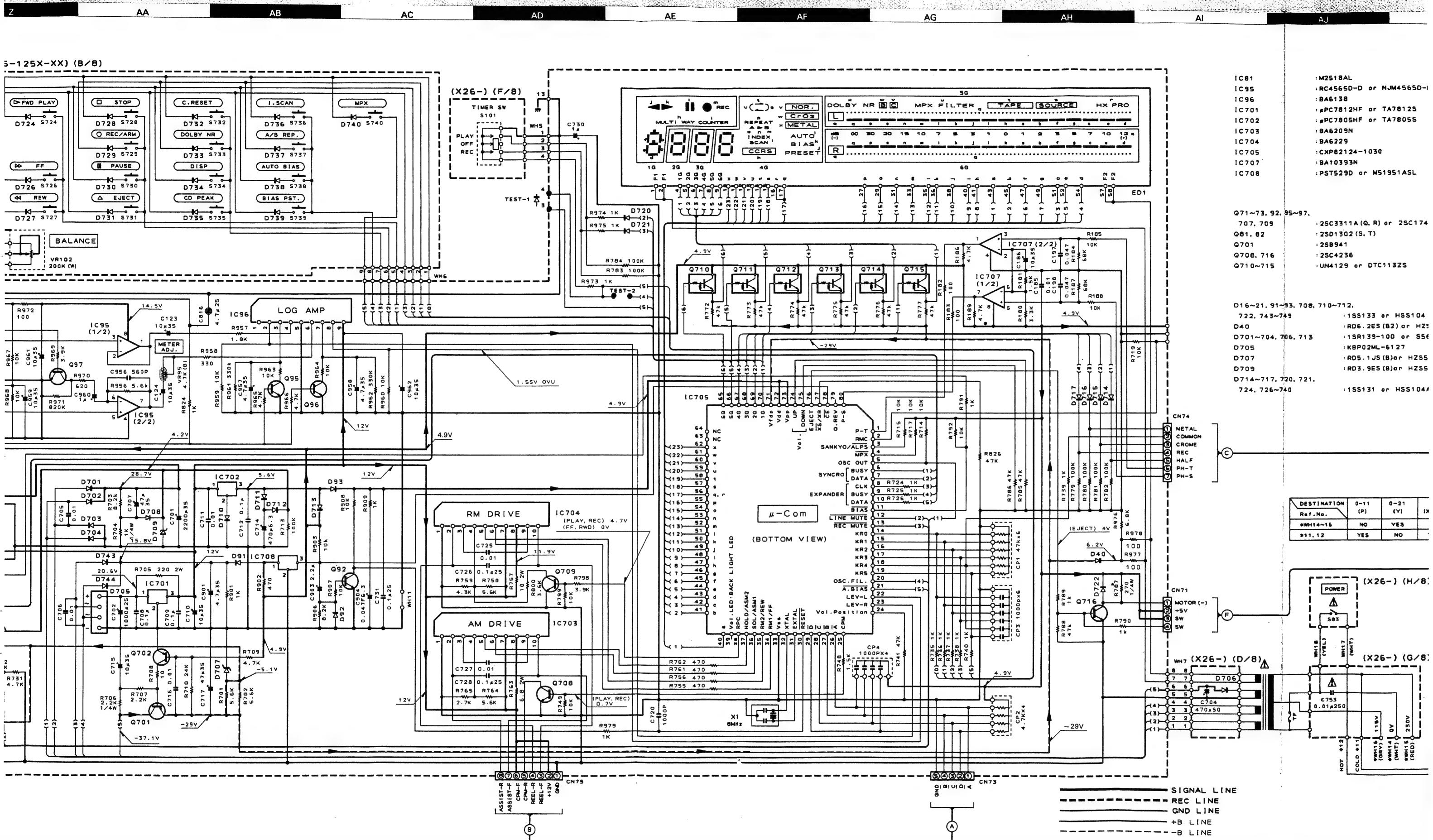


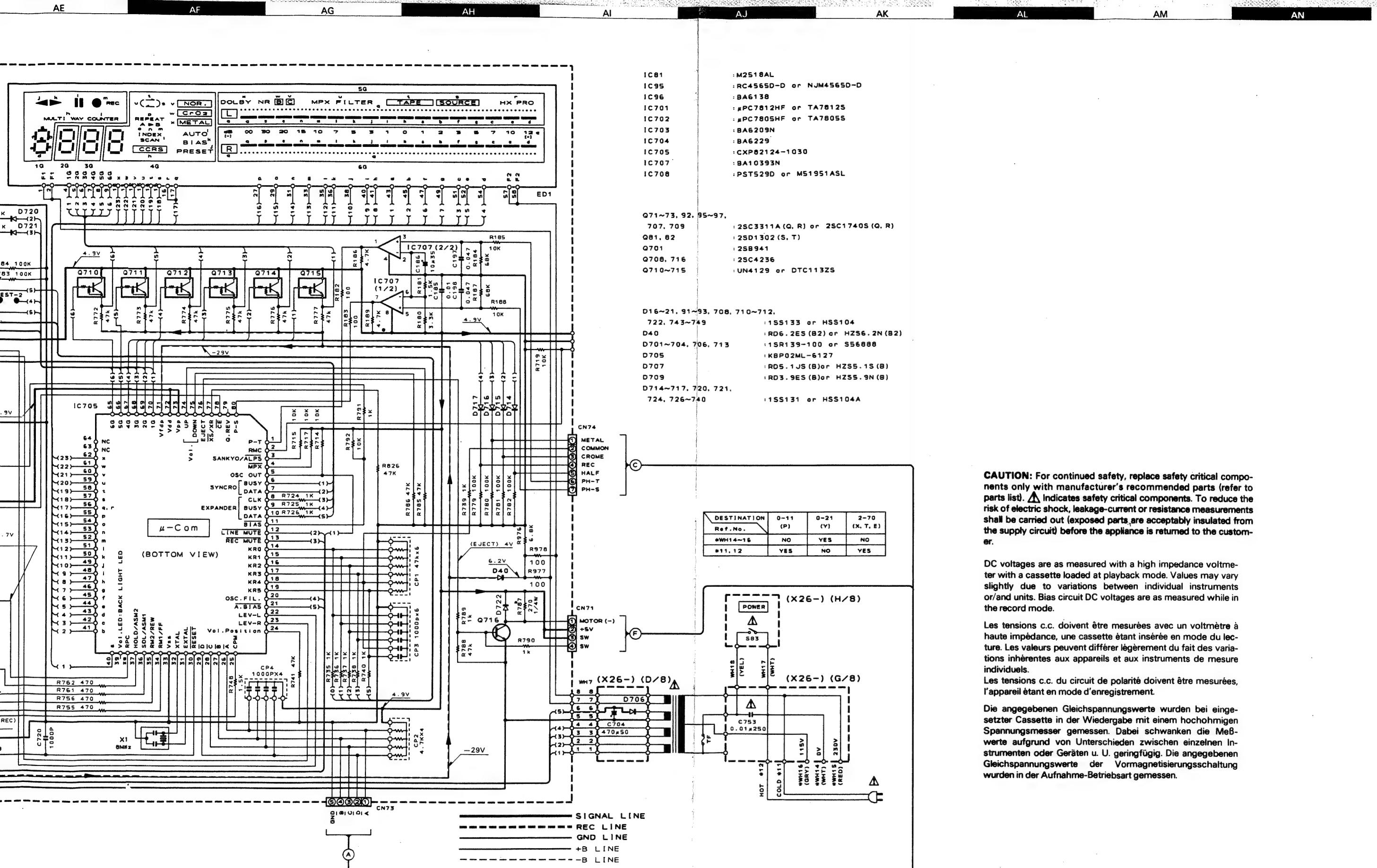
**KX-5030**

**KENWOOD**

Y26-3262-70



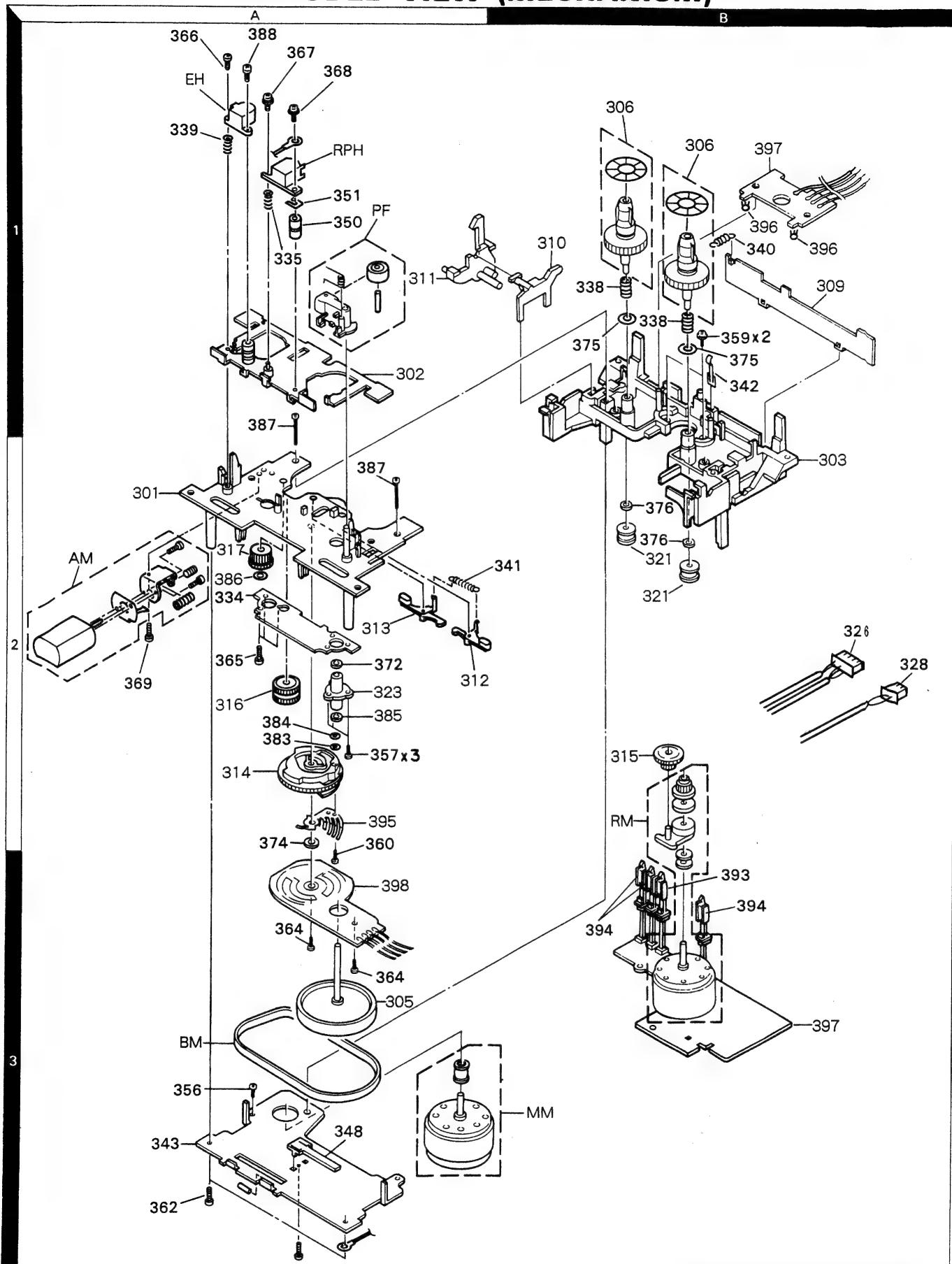




**KX-5030**  
KENWOOD

Y26-3262-70

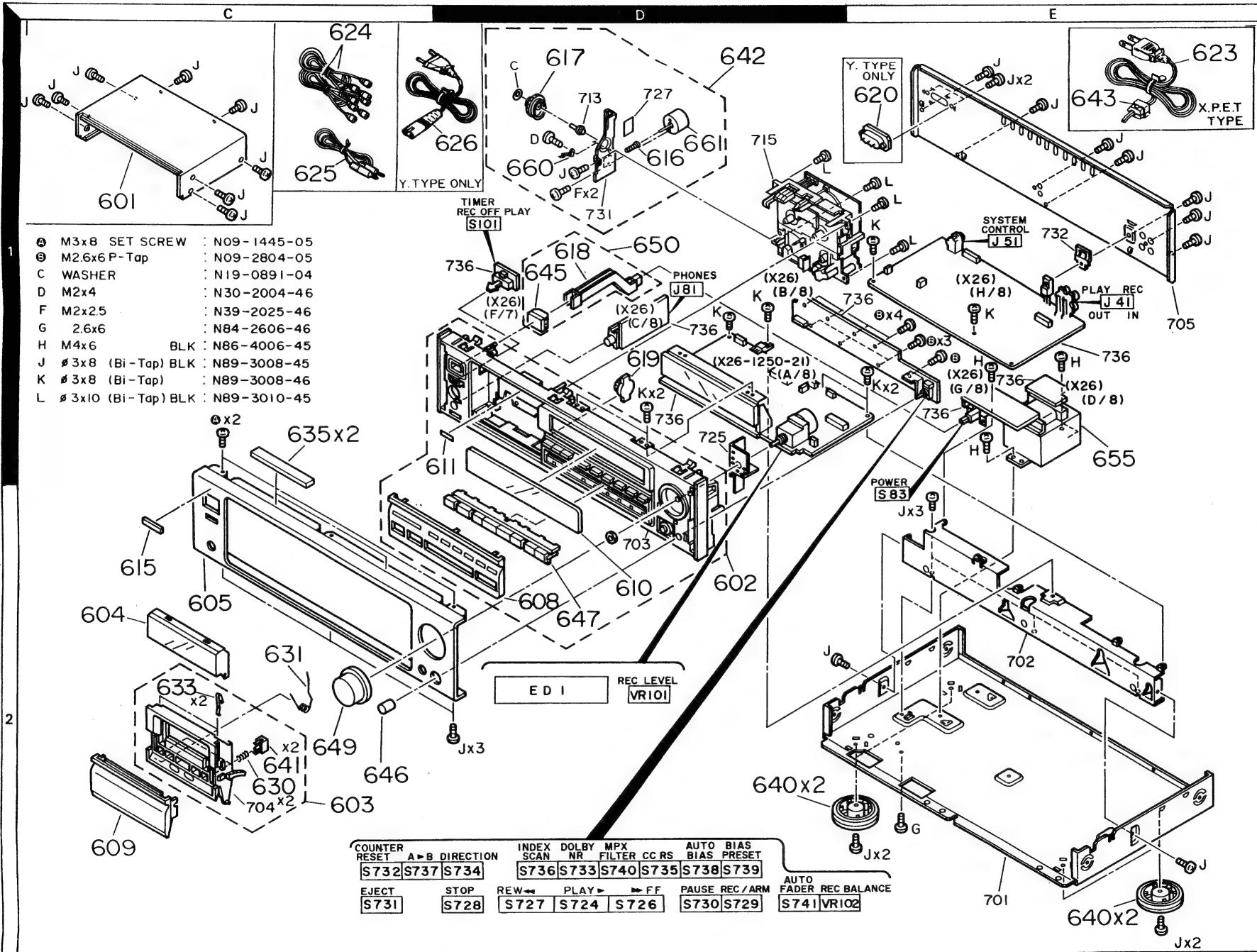
## **EXPLODED VIEW (MECHANISM)**



## **EXPLODED VIEW (UNIT)**

**Parts with the exploded numbers larger than 700 are not supplied.**

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# KX-5030

## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

## No.1

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位 置	新	部品番号	部品名 / 規格	仕 向	備考
<b>KX-5030</b>						
601	1C	*	A01-1943-01	METALLIC CABINET		
602	1D, 2D	*	A22-1482-02	SUB PANEL ASSY		
603	2C	*	A53-1287-03	CASSETTE HOLDER ASSY		
604	2C	*	A53-1290-03	CASSETTE LID		
605	2C	*	A60-0056-02	PANEL		
608	2C, 2D	*	B03-2712-03	DRESSING PLATE (PANEL)		
609	2C	*	B03-2713-03	DRESSING PLATE (CASSETTE)		
610	1D, 2D	*	B10-1847-03	FRONT GLASS		
611	1E	*	B03-1691-04	DRESSING SEAL		
615	2C	*	B43-0287-04	KENWOOD BADGE		
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-23	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-0411-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-0412-00	INSTRUCTION MANUAL (FRENCH)	EP	
-		*	B60-0414-00	INSTRUCTION MANUAL (GE, DU, IA)	E	
616	1D	*	D13-0282-04	WORM		
617	1D	*	D13-0918-03	GEAR		
618	1D	*	D21-1648-03	EXTENSION SHAFT		
619	1D	*	D39-0176-05	DAMPER		
▲ 620	1E	*	E03-0102-25	AC INLET	Y	
▲ 623	1E	*	E30-0181-05	AC POWER CORD	P	
▲ 623	1E	*	E30-0459-05	AC POWER CORD	E	
▲ 623	1E	*	E30-1341-05	AC POWER CORD	X	
▲ 623	1E	*	E30-1416-05	AC POWER CORD	T	
624	1C	*	E30-0505-05	AUDIO CORD		
625	1C	*	E30-0977-05	CORD WITH PLUG	PYX	
▲ 626	1D, 1E	*	E30-1305-15	AC POWER CORD (INLET)	Y	
630	2C	*	G01-2288-04	COMPRESSION SPRING		
631	2C	*	G01-3351-04	TORSION COIL SPRING		
633	1D	*	G02-0937-04	FLAT SPRING		
635	1C, 2C	*	G11-0185-04	SOFT TAPE		
-		*	H50-0046-04	ITEM CARTON CASE		
-		*	H10-5115-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5116-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0330-04	PROTECTION BAG		
640	2C, 2E	*	J02-1034-05	FOOT		
641	2C	*	J11-0140-04	CLAMPER ASSY		
642	1D	*	J21-5710-15	MOUNTING HARDWARE ASSY (EJECT)		
▲ 643	1E	*	J42-0083-05	POWER CORD BUSHING	EPXT	
-		*	J61-0307-05	WIRE BAND		
645	1D	*	K29-3835-04	KNOB POWER (K29-4180-04 ASSY)		
646	2C	*	K29-4010-04	KNOB REC BALANCE		
647	2D	*	K29-4150-03	KNOB TAPE CONTROL		
649	2D	*	K29-4152-04	KNOB REC LEVEL		
650	1D	*	K29-4180-04	KNOB ASSY POWER		
▲ 655	1E	*	L07-0296-05	POWER TRANSFORMER	P	

E: Scandinavia & Europe

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▲ indicates safety critical components.

## Destination list

	JAPAN MADE
KX-5030	E, P, Y, X, T

## Cassette unit

X26-1250-11	KX-5030P
X26-1250-21	KX-5030Y
X26-1252-70	KX-5030E, X, T

## PARTS LIST

## \* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

## No.2

Ref. No. 参照番号	Address 位 置	New 部 品 号	Parts No. 部品番号	Description 部品名 / 規 格	Desti- nation 仕 向	Re- marks 備考
655 △ 655	1E 1E	*	L07-0297-05 L07-0298-05	POWER TRANSFORMER POWER TRANSFORMER	EXT Y	
A B C D F	1C 1D 1D 1D 1D		N09-1445-05 N09-2804-05 N19-0891-04 N30-2004-46 N39-2025-46	SET SCREW (M3X8) TAPPING SCREW (2.6X6) FLAT WASHER PAN HEAD MACHIN SCREW PAN HEAD MACHIN SCREW		
G H J K L	1D 1E 1C, 1E 1D 1D, 1E		N84-2606-46 N86-4006-45 N89-3008-45 N89-3008-46 N89-3010-45	PAN HEAD TAPPIE SCREW BINDING HEAD TAPPIE SCREW BINDING HEAD TAPPIE SCREW BINDING HEAD TAPPIE SCREW BINDING HEAD TAPPIE SCREW		
N	1C		N09-2776-05	SET SCREW (M3X8)		
660	1D	*	S74-0001-05	LEAF SWITCH		
661	1D		T42-0567-05	DC MOTOR (EJECT)		
<b>CASSETTE UNIT (X26-125X-XX)</b>						
C1, 2 C3, 4 C5, 6 C7, 8 C9, 10			CK45FB1H102K CE04KW1V100M CK45FSL1H221J CE04KW1A221M CF92FV1H153J	CERAMIC 1000PF K ELECTRO 10UF 35WV CERAMIC 220PF J ELECTRO 220UF 10WV MF 0.015UF J		
C11, 12 C13, 14 C15, 16 C17 C19			CE04KW1V100M CF92FV1H183J CK45FB1H471K CE04KW1C331M CK45FF1H473Z	ELECTRO 10UF 35WV MF 0.018UF J CERAMIC 470PF K ELECTRO 330UF 16WV CERAMIC 0.047UF Z		
C71 C74 C75 C101 C102			CE04KW1V100M CF92FV1H104J CE04KW1C010M CE04KW1V100M C90-1332-05	ELECTRO 10UF 35WV MF 0.10UF J ELECTRO 100UF 16WV ELECTRO 10UF 35WV NP-ELEC 10UF 25WV		
C103, 104 C105, 106 C107, 112 C113-116 C117, 118			CE04KW1V4R7M CE04KW1V100M CF92FV1H222J CF92FV1H104J CE04KW1V100M	ELECTRO 4.7UF 35WV ELECTRO 10UF 35WV MF 2200PF J MF 0.10UF J ELECTRO 10UF 35WV		
C119 C120 C123, 124 C185 C186	*		C90-1919-05 CE04KW1E221M CE04KW1V100M CK45FF1H103Z CE04KW1V100M	ELECTRO 4.7UF 25WV ELECTRO 220UF 25WV ELECTRO 10UF 35WV CERAMIC 0.010UF Z ELECTRO 10UF 35WV		
C197, 198 C201, 202 C203, 204 C205, 206 C207, 208			CK45FP1H473Z CF92FV1H822J CE04KW1H010M CE04KW1V100M CC45FSL1H220J	CERAMIC 0.047UF Z MF 8200PF J ELECTRO 1.0UF 50WV ELECTRO 10UF 35WV CERAMIC 22PF J		
C209, 210 C211, 212 C213, 214 C217, 218 C219, 220			CF92FV1H473J CE04KW1V100M CK45FB1H471K CF92FV1H272J CF92FV1H102J	MF 0.047UF J ELECTRO 10UF 35WV CERAMIC 470PF K MF 2700PF J MF 1000PF J		
C221, 222			CF92FV1H562J	MF 5600PF J		

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## \* New Parts

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Teile ohne Parts No. werden nicht geliefert.

## No.3

Ref. No. 参照番号	Address 位 置	New 部 品 号	Parts No. 部品番号	Description 部品名 / 規 格	Desti- nation 仕 向	Re- marks 備考	
C223-226 C227, 228 C229 C230 C231			CF92FV1H272J CF92FV1H681J CE04KW1V100M CE04KW1C101M C90-1350-05	MF 2700PF J MF 680PF J ELECTRO 10UF 35WV ELECTRO 100UF 16WV NP-ELEC 2.2UF 50WV			
C301, 302 C303, 304 C305, 306 C307, 308 C309, 310	*		C91-1434-05 C91-1436-05 CK45FB1H561K CF92FV1H103J CF92FV1H153J	FILM 150PF J FILM 220PF J CERAMIC 560PF K MF 0.010UF J MF 0.015UF J			
C311, 312 C313, 314 C315 C316 C317, 318			CF92FV1H223J CE04KW1V100M CK45FF1H103Z C93HP2A682J CE04KW1V100M	MF 0.022UF J ELECTRO 10UF 35WV CERAMIC 0.010UF Z MYLAR 6800PF J ELECTRO 10UF 35WV			
C319 C320 C321, 322 C323 C324			CC45FSL2H100D CF92FV1H153J CF92FV1H472J CF92FV1H682J CE04KW1H010M	CERAMIC 10PF D MF 0.015UF J MF 4700PF J MF 6800PF J ELECTRO 1.0UF 50WV			
C325 C326 C401, 402 C403, 404 C405			CE04KW1V100M CE04KW1H2R2M CK45FB1H471K CF92FV1H394J CE04KW1E101M	ELECTRO 10UF 35WV ELECTRO 2.2UF 50WV CERAMIC 470PF K MF 0.39UF J ELECTRO 100UF 25WV			
C406 C501 C502 C503 C505			C90-1352-05 C501 C502 C503 C505	NP-ELEC 4.7UF 25WV CK45FSL1H221J CK45FB1H102K CE04KW1V100M CE04KW1C220M	CERAMIC 220PF J CERAMIC 1000PF K ELECTRO 10UF 35WV ELECTRO 22UF 16WV		
C506 C701 C702 C704 C705, 706		*	C90-1872-05 C701 C702 C704 C705, 706	CE04KW1E221M CE04KW1V222M C90-1872-05 CE04KW1H471M CK45FF1H103Z	ELECTRO 220UF 25WV ELECTRO 2200UF 35WV ELECTRO 10000UF 25WV ELECTRO 470UF 50WV CERAMIC 0.010UF Z		
C707 C708, 709 C710 C711 C712			CE04KW1V470M CF92FV1H104J CE04KW1V100M CF92FV1H103J CF92FV1H104J	ELECTRO 47UF 35WV MF 0.10UF J ELECTRO 10UF 35WV MF 0.010UF J MF 0.10UF J			
C714 C715 C716 C717 C720			C91-0700-05 C714 C715 C716 C717 C720	CE04KW0J471M CE04KW1V100M CK45FF1H103Z CE04KW1V470M CK45FF1H103Z	ELECTRO 470UF 6.3WV ELECTRO 10UF 35WV CERAMIC 0.010UF Z ELECTRO 47UF 35WV CERAMIC 0.010UF Z		
C723 C724 C725 C726 C727			CF92FV1H393J CF92FV1H272J CK45FF1H103Z C91-0700-05 CK45FF1H103Z	MF 0.039UF J MF 2700PF J CERAMIC 0.010UF Z CERAMIC 0.1UF J CERAMIC 0.010UF Z			
C728, 729 C730 C731 C753 C753		*	C91-0700-05 C728, 729 C730 C731 C753 C753	CERAMIC 0.1UF J CE04KW1H010M CERAMIC 0.1UF J CERAMIC 0.1UF J FILM 0.01UF 250AC FILM 0.01UF 250VAC		EYXT P	

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KX-5030

## PARTS LIST

### No.5

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation 向	Re- marks 備考
参照番号	位 置	新	部品番号	部品名 / 規 格		
S101			S31-1017-05	SLIDE SWITCH	TIMER	
S724			S40-1064-05	PUSH SWITCH	KEY BOARD	
S726-740			S40-1064-05	PUSH SWITCH	KEY BOARD	
D1			HSS104	DIODE		
D1			ISS133	DIODE		
D2			HZS11N(B2)	ZENER DIODE		
D2			RD111ES(B2)	ZENER DIODE		
D3			HSS104	DIODE		
D3			ISS133	DIODE		
D16 -21			HSS104	DIODE		
D16 -21			ISS133	DIODE		
D31			HSS104	DIODE		
D31			ISS133	DIODE		
D40			HZS6.2N(B2)	ZENER DIODE		
D40			RD6.2ES(B2)	ZENER DIODE		
D51 -54			HSS104	DIODE		
D51 -54			ISS133	DIODE		
D91 -93			HSS104	DIODE		
D91 -93			ISS133	DIODE		
D701-704			SS688B	DIODE		
D701-704			ISR139-100	DIODE		
D705			KBP02ML-6127	DIODE		
D706			SS688B	DIODE		
D706			ISR139-100	DIODE		
D707			HZS5.1S(B)	ZENER DIODE		
D707			RD5.1JS(B)	ZENER DIODE		
D708			HSS104	DIODE		
D708			ISS133	DIODE		
D709			HZS3.9N(B)	ZENER DIODE		
D709			RD3.9ES(B)	ZENER DIODE		
D710-712			HSS104	DIODE		
D710-712			ISS133	DIODE		
D713			SS688B	DIODE		
D713			ISR139-100	DIODE		
D714-717			HSS104A	DIODE		
D714-717			ISS131	DIODE		
D720,721			HSS104A	DIODE		
D720,721			ISS131	DIODE		
D722			HSS104	DIODE		
D722			ISS133	DIODE		
D724			HSS104A	DIODE		
D724			ISS131	DIODE		
D726-740			HSS104A	DIODE		
D726-740			ISS131	DIODE		
D743-749			HSS104	DIODE		
D743-749			ISS133	DIODE		
E01		*	FIP17AW6Y	FLUORESCENT INDICATOR TUBE		
IC1			TA8125S	IC(2CH PRE AMP)		
IC11			HA12170NT	IC(DOLBY B/C NR)		
IC21			NJM4565D-D	IC(OP AMP X2)		
IC21		*	RC4565D-D	IC(OP AMP X2)		
IC31			UPC1297CA	IC(DOLBY HX PRO SYSTEM)		
IC41		*	TA7815S	IC(VOLTAGE REGULATOR/ +15V)		
IC41			UPC7815HF	IC(VOLTAGE REGULATOR/ +15V)		

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\* New Parts  
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### No.4

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation 向	Re- marks 備考
参照番号	位 置	新	部品番号	部品名 / 規 格		
C801,802			CE04KW1H010M	ELECTRO	1.0UF 50WV	
C805,806			CE04KW1C470M	ELECTRO	4.7UF 16WV	
C813			CE04KW1V100M	ELECTRO	10UF 35WV	
C814			CE04DW1C471M	ELECTRO	470UF 16WV	
C816			C90-1352-05	NP-ELEC	4.7UF 25WV	
C901			CE04KW1V4R7M	ELECTRO	4.7UF 35WV	
C903			CE04KW1H2R2M	ELECTRO	2.2UF 50WV	
C904			C90-1826-05	BACKUP	0.047F 5.5WV	
C951,952			CE04KW1HR33M	ELECTRO	0.33UF 50WV	
C953,954			CF92FV1H332J	MF	3300PF J	
C956			CK45FB1H561K	CERAMIC	560PF K	
C957,958			CE04KW1V4R7M	ELECTRO	4.7UF 35WV	
C959			CE04KW1V100M	ELECTRO	10UF 35WV	
C960			CE04KW1H010M	ELECTRO	1.0UF 50WV	
C961,962			CE04KW1V100M	ELECTRO	10UF 35WV	
C963			CE04KW1H010M	ELECTRO	1.0UF 50WV	
C965,966			CE04KW1V4R7M	ELECTRO	4.7UF 35WV	
J41			E13-0445-05	PHONE JACK (4P)	LINE IN/OUT	
J51			E11-0188-05	MINIATURE PHONE JACK	SYNCRO	
J81			E11-0189-05	PHONE JACK	HEAD PHONE	
L11 ,12			L79-0720-05	LC FILTER		
L21 ,22			L40-2235-29	SMALL FIXED INDUCTOR(22MH, J)		
L23 ,24			L39-0171-05	TRAP COIL		
L31 ,32			L32-0377-05	BIAS OSCILLATING COIL		
L33	*		L32-0531-05	BIAS OSCILLATING COIL		
X1			L78-0275-05	RESONATOR	8MHz	
CP1			R90-0819-05	MULTI-COMP	47K X6	
CP2			R90-0824-05	MULTI-COMP	4.7KX6	
CP3			R90-0499-05	MULTI-COMP	1000PX6	
CP4			R90-0478-05	MULTI-COMP	1000PX4	
R22			RD14NB2E221J	RD	220 J 1/4W	
R79			RD14NB2E102J	RD	1.0K J 1/4W	
R129			RD14NB2E100J	RD	10 J 1/4W	
R243			RD14NB2E101J	RD	100 J 1/4W	
R320			R92-0219-05	FUSE RESIST	10 G 1/4W	
R321			R92-0226-05	FUSE RESIST	68 G 1/4W	
R324,325			RD14NB2E220J	RD	22 J 1/4W	
R326			RD14NB2E102J	RD	1.0K J 1/4W	
R704			RD14GB2E102J	FL-PROOF RD	1.0K J 1/4W	
R705			RS14KB3D221J	FL-PROOF RS	220 J 2W	
R706	*		RD14NB2E222J	RD	2.2K J 1/4W	
R757			RS14KB3D100J	FL-PROOF RS	10 J 2W	
R763			RS14KB3D68J	FL-PROOF RS	6.8 J 2W	
R787			RD14NB2E271J	RD	270 J 1/4W	
R823			RD14NB2E221J	RD	220 J 1/4W	
R972			RD14NB2E101J	RD	100 J 1/4W	
VR1 ,2			R12-3686-05	TRIMMING POT.(22K)		
VR31,32	*		R12-5651-05	TRIMMING POT.(100K)		
VR95	*		R12-1619-05	TRIMMING POT.(4.7K)		
VR101	*		R06-4085-05	POTENTIOMETER REC LEVEL		
VR102	*		R05-5043-05	POTENTIOMETER REC BALANCE		
K1			S51-2089-05	MAGNETIC RELAY		
S83			S40-1153-05	PUSH SWITCH	POWER	

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# PARTS LIST

\* New Parts

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**No.6**

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規 格	Desti- nation 仕 向	Re- marks 備考
IC51		*	TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC81			M5218AL	IC(OP AMP X2)		
IC95		*	NJM4565D-D	IC(OP AMP X2)		
IC95		*	RC4565D-D	IC(OP AMP X2)		
IC96			BA6138	IC(ROOT AMP X2)		
IC701		*	TA7812S	IC(VOLTAGE REGULATOR/ +12V)		
IC701			UPC7812HF	IC(VOLTAGE REGULATOR/ +12V)		
IC702			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
IC702			UPC7805HF	IC(VOLTAGE REGULATOR/ +5V)		
IC703			BA6209N	IC(MOTOR DRIVER)		
IC704			BA6229	IC(MOTOR DRIVER)		
IC705		*	CXP82124-104Q	IC		
IC707			BA10393N	IC(DUAL COMPARATOR)		
IC708			MS1951ASL	IC(SYSTEM RESET)		
IC708			PST529D	IC(SYSTEM RESET)		
Q1 -5			2SC1740S(Q,R)	TRANSISTOR		
Q1 -5			2SC3311A(Q,R)	TRANSISTOR		
Q21 ,22			2SD1302(S,T)	TRANSISTOR		
Q23 -28			2SC1740S(Q,R)	TRANSISTOR		
Q23 -28			2SC3311A(Q,R)	TRANSISTOR		
Q31 ,32			2SC1740S(Q,R)	TRANSISTOR		
Q31 ,32			2SC3311A(Q,R)	TRANSISTOR		
Q33			2SC3940A(R,S)	TRANSISTOR		
Q34 ,35		*	DTC113ZS	DIGITAL TRANSISTOR		
Q34 ,35		*	UN4219	TRANSISTOR		
Q41 ,42			2SD1302(S,T)	TRANSISTOR		
Q51			DTC124ES	DIGITAL TRANSISTOR		
Q51			UN4212	TRANSISTOR		
Q71 -73			2SC1740S(Q,R)	TRANSISTOR		
Q71 -73			2SC3311A(Q,R)	TRANSISTOR		
Q74		*	2SA1309A(Q,R)	TRANSISTOR		
Q74			2SA933S(Q,R)	TRANSISTOR		
Q81 ,82			2SD1302(S,T)	TRANSISTOR		
Q92		*	2SC1740S(Q,R)	TRANSISTOR		
Q92			2SC3311A(Q,R)	TRANSISTOR		
Q95 -97			2SC1740S(Q,R)	TRANSISTOR		
Q95 -97			2SC3311A(Q,R)	TRANSISTOR		
Q701			2SB941	TRANSISTOR		
Q702		*	2SA1309A(Q,R)	TRANSISTOR		
Q702			2SA933S(Q,R)	TRANSISTOR		
Q704-706		*	2SA1309A(Q,R)	TRANSISTOR		
Q704-706			2SA933S(Q,R)	TRANSISTOR		
Q707			2SC1740S(Q,R)	TRANSISTOR		
Q707			2SC3311A(Q,R)	TRANSISTOR		
Q708			2SC3246	TRANSISTOR		
Q709			2SC1740S(Q,R)	TRANSISTOR		
Q709			2SC3311A(Q,R)	TRANSISTOR		
Q710-715		*	DTC113ZS	DIGITAL TRANSISTOR		
Q710-715		*	UN4219	TRANSISTOR		
Q716			2SC3246	TRANSISTOR		
<b>MECHANISM ASS'Y (D40-0971-05)</b>						
301	2A	*	A10-2893-08	CHASSIS CALKED ASSY		
302	1A	*	A10-2894-08	HEAD CHASSIS CALKED ASSY		
303	1B, 2B	*	A11-0721-08	SHAFT CHASSIS ASSY		
305	3A	*	D01-0135-08	FLYWHEEL ASSY		

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\* New Parts

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**No.7**

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規 格	Desti- nation 仕 向	Re- marks 備考
306	1B	*	D03-0293-08	REEL DISK ASSY		
309	1B		D10-2429-08	CASSETTE LEVER		
310	1B		D10-2430-08	LEVER		
311	1A, 1B		D10-2431-08	EJECT LEVER		
312	2A, 2B	*	D10-3198-08	BRAKE LEVER		
313	2A	*	D10-3199-08	BRAKE LEVER		
314	2A	*	D13-0874-08	CAM GEAR		
315	2B		D13-0875-08	IDLER GEAR		
316	2A	*	D13-0953-08	GEAR ASSY		
317	2A	*	D13-0954-08	GEAR ASSY		
321	2B	*	D15-0321-08	PULLEY ASSY		
323	2A		D23-0263-08	CAPSTAN RETAINER ASSY		
326	2B	*	E35-0212-08	WIRING HARNESS 4P (R/P HEAD)		
328	2B	*	E35-0204-08	WIRING HARNESS 2P (E HEAD)		
334	2A		F39-0053-08	REINFORCING PARTS		
335	1A	*	G01-2415-08	COMPRESSION SPRING (AZIMUTH)		
338	1B	*	G01-3413-08	COMPRESSION SPRING (BLUE)		
339	1A		G01-3414-08	COMPRESSION SPRING		
340	1B	*	G01-3416-08	TORSION SPRING		
341	2A, 2B	*	G01-3423-08	TORSION SPRING (BRAKE)		
342	1B		G02-0959-08	FLAT SPRING (CASSETTE)		
343	3A	*	J21-5774-08	MOUNTING HARDWARE		
347	1A		J30-0274-08	SPACER		
348	3A	*	J39-0167-08	SPACER		
350	1A	*	J39-0168-08	SPACER		
351	1A		J39-0169-08	SPACER		
356	3A		N09-2758-08	SCREW	M2.6X3	
357	2A		N09-2759-08	SCREW	M2X8	
359	1B		N09-2762-08	SCREW	M2.6X1.6	
360	2A, 3A		N09-2763-08	SCREW	M2X2.5	
362	3A		N09-2765-08	SCREW	M2.6X8	
364	3A	*	N09-2852-08	SCREW		
365	2A	*	N09-2853-08	SCREW		
366	1A	*	N09-2854-08	SCREW		
367	1A	*	N09-2855-08	SCREW		
368	1A	*	N09-2856-08	SCREW		
369	2A	*	N09-2857-08	SCREW		
372	2A		N19-1235-08	FLAT WASHER	/2.5X7X0.8	
374	2A		N19-1237-08	FLAT WASHER	/3X8X0.5	
375	1B		N19-1239-08	FLAT WASHER		
376	2B		N19-1240-08	FLAT WASHER	/2.6X5.5X0.13	
383	2A	*	N19-1280-08	FLAT WASHER		
384	2A	*	N19-1281-08	FLAT WASHER		
385	2A	*	N19-1282-08	FLAT WASHER		
386	2A	*	N19-1283-08	FLAT WASHER		
387	1A, 2A		N30-2630-46	PAN HEAD MACHINE SCREW M2.6X30		
388	1A		N35-2012-46	BINDING HEAD MACHINE SCREW		
393	3B	*	S74-0004-08	LEAF SW		
394	2A	*	S74-0005-08	LEAF SW		
395	2A		S90-0112-08	ROTARY SWITCH WAFERS		
396	1B		T95-0118-08	PHOTO ISOLATOR		
397	3B	*	W02-1112-08	ELECTRIC UNIT		
398	3A	*	W02-1113-08	ELECTRIC UNIT		
-		*	J61-0094-08	WIRE BAND		
AM	2A	*	T42-0593-08	DC MOTOR ASSY		

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# KX-5030

## PARTS LIST

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BM	3A	*	D16-0299-08	MAIN BELT		
EH	1A	*	T32-0321-05	ERASE HEAD		
MM	3A, 3B	*	T42-0595-08	DC MOTOR ASSY (MAIN)		
PF	1A		D14-0319-08	PINCH ROLLER		
RM	2B, 3B	*	T42-0592-08	DC MOTOR ASSY (REEL)		
RPH	1A	*	T34-0341-05	RECORD/PLAYBACK HEAD		

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# KX-5030

## SPECIFICATIONS

**Track System** ..... 4-track, 2-channel stereo  
**Recording System** ..... AC bias (Frequency: 105 kHz)  
**Heads** ..... Playback/recording head..... 1  
Erasing head ..... 1  
**Motors** ..... DC motor × 3  
**Fast Winding Time** ..... Approx. 80 seconds (C-60 tape)  
**Frequency Response:**  
Normal Tape ..... 20 Hz to 17,000 Hz, ±3 dB  
CrO<sub>2</sub> Tape ..... 20 Hz to 18,000 Hz, ±3 dB  
Metal Tape ..... 20 Hz to 19,000 Hz, ±3 dB  
**Signal-to Noise Ratio:**  
Dolby C NR ON ..... 73 dB (Metal tape)  
Dolby B NR ON ..... 66 dB (Metal tape)  
Dolby NR OFF ..... 58 dB (Metal tape)

**Harmonic Distortion** ..... Less than 0.8%  
(at 1 kHz, 3rd H.D.Metal Tape)  
**Wow and Flutter** ..... 0.05% (W.R.M.S.)  
±0.12% (DIN)  
**Input sensitivity/Impedance:**  
LINE IN ..... 77.5 mV/50 kΩ  
**Output Level/Impedance:**  
LINE OUT ..... 490 mV/3 kΩ  
Headphones ..... 0.3 mW/8 Ω  
**[GENERAL]**  
**Power Consumption** ..... 24 W  
**Dimensions** ..... W: 440 mm (17-5/16")  
H: 127 mm (5")  
D: 274 mm (10-13/16")  
**Weight (Net)** ..... 4.4 kg (9.7 lb)

**Note:**

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**Note:**

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

### KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

2201 East Dominguez Street, Long Beach, CA 90810;  
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

P.O. BOX 1075, 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2

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KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB United Kingdom

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Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrucker Str. 15, 6056 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD LINEAR S.p.A.

20125 MILANO-VIA ARBE, 50, ITALY

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (INCORPORATED IN NSW)

P.O. Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37 Connaught Road, Central, Hong Kong

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PF	1A		D14-0319-08	PINCH ROLLER		
RM	2B, 3B	*	T42-0592-08	DC MOTOR ASSY (REBL)		
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# KX-5030

## SPECIFICATIONS

**Track System** ..... 4-track, 2-channel stereo  
**Recording System** ..... AC bias (Frequency: 105 kHz)  
**Heads** ..... Playback/recording head..... 1  
Erasing head ..... 1  
**Motors** ..... DC motor × 3  
**Fast Winding Time** ..... Approx. 80 seconds (C-60 tape)  
**Frequency Response:**  
Normal Tape ..... 20 Hz to 17,000 Hz, ±3 dB  
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**Signal-to Noise Ratio:**  
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**Harmonic Distortion** ..... Less than 0.8%  
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**Wow and Flutter** ..... 0.05% (W.R.M.S.)  
±0.12% (DIN)

**Input sensitivity/Impedance:**  
LINE IN ..... 77.5 mV/50 kΩ  
**Output Level/Impedance:**  
LINE OUT ..... 490 mV/3 kΩ  
Headphones ..... 0.3 mW/8 Ω

### [GENERAL]

**Power Consumption** ..... 24 W  
**Dimensions** ..... W: 440 mm (17-5/16")  
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**Weight (Net)** ..... 4.4 kg (9.7 lb)

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